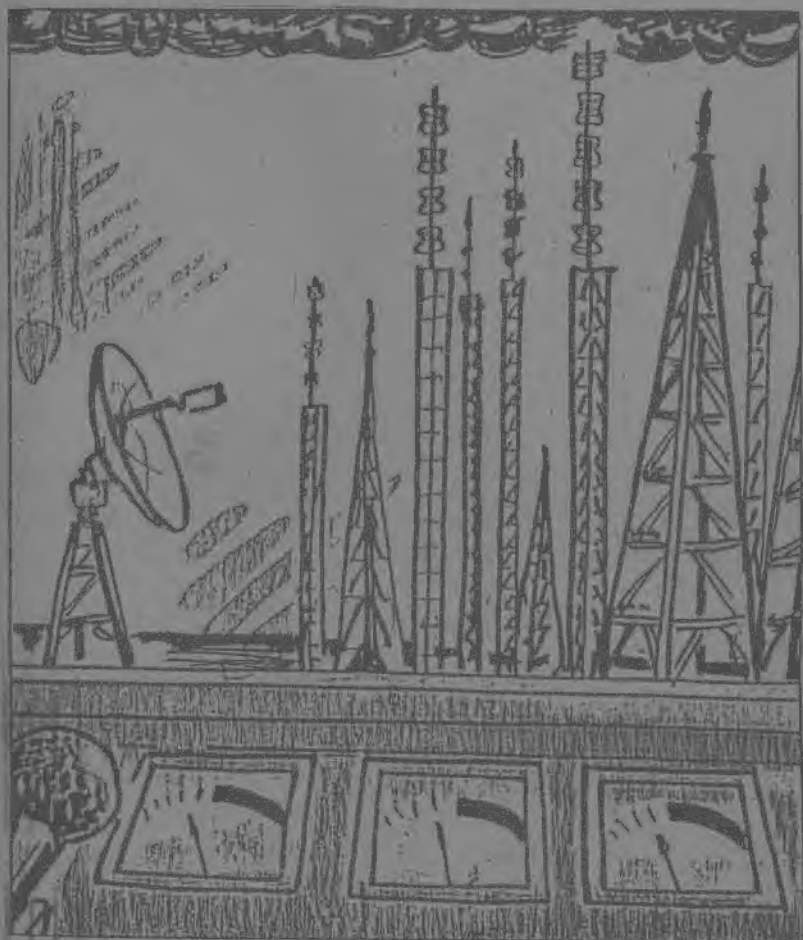


Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

NOVEMBER 1990



WORLDWIDE TV-FM DX ASSOCIATION
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11/91
WILLIAM N NOLLMAN
35 NYE ROAD
GLASTONBURY CT 06033

From The STAFF

TROPIC CONTINUES TO DOMINATE TV/FM DX...Quite a few enthusiasts are regarding the 1990 Fall tropo season to be among the most interesting ones of recent years. The openings have been numerous from East Coast to Midwestern locations, and unusual paths have opened up frequently this year. There was something of a revival in Atlantic hurricane activity in October, and the effects were seen on the VHF and UHF bands. As often happens, storm-displaced stable moist air masses caused the best activity, but there were also quite a few conventional tropo openings. With any luck, above average conditions may continue before the colder weather sets in. Most of the "good stuff" now appears to be over--but don't forget about the possibility of sudden "super" tropo openings this month. November has a well-deserved reputation for just those kind of surprises!

BEST FM DX REFERENCE IS UPDATED...FM DX enthusiasts should not do without the latest edition of Bruce Elving's FM ATLAS. Just off the presses. There's nothing to compare to this fantastic reference: no DX club, no broadcasting industry publisher, or trade group, puts out anything like it. What's made the ATLAS so valuable to DXers in addition to Elving's reputation for the most accurate station data in print is the maps, which allow you to pinpoint station locations during DX openings. Our advice: order the latest edition (the FCC FM NEWS) and ask for Elving's latest catalog with it--it's full of great stuff for the DXer, including selectivity and subcarrier (SCA) modification services.

WTFOA CONVENTION MOST STILL NEEDED FOR '91...As of press time, there were no serious bids for next year's WTFOA convention. Although a volunteer for next year, perhaps it's time to start thinking of '92 instead? Seriously though, it never fails to amaze us when we hear from members who claim that one convention was as "convenient" as another in location for them to attend, and how many hear from them when the opportunity to host the event arises. In recent years, we have often only heard from a single volunteer to host the WTFOA convention. Without such great people, there would not have been conventions to attend! In years past, we often had two or three prospective hosts, which would result in a somewhat more deciding the site. If you'd like to host Convention '91, please contact us.

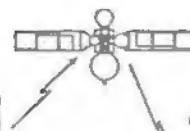
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Cover illustration from material submitted by Jim Bland

(FROM THE STAFF CONTINUED ON PAGE 17)

SATELLITE NEWS



GEORGE W. JENSEN
4604 Antares Avenue
Baltimore, MD 21206-4220

I hope the resumes of the past 2 issues have been of some interest to you. But nothing remains constant in the world of satellites - so here comes the addenda and errata.

Satcom 1 - Aurora - Feeds to US should be on 21 not 20

Satcom 1 - 5 - add Cal-Span - California State Legislature' 22 - Prime Sports Northwest (add)

Satcom 3 - Bravo and RAL USA move from 4 to 24
Omit Request TV2 to Satcom 4 XPDR 17
American Movie Classics and AVN move from 12 to 14
Omit the Cable Program Guide that was on 14

Telstar 303 - TVN uses XPDR 1 thru 9 also rest of menu unchanged

Westar 5 - Add - CTNA to XPDR 13
Add - Sports Channel - South VC2 - to 16
Move Caribbean Superstation to 6

Spacenet 1 - add - TV Heaven to XPDR 9
- add Check Out newscasts to KU 24 - this is the CNN news service to Supermarket Check-out Counters

Anik C-3 - definitely in use for feeds

Morelos 2 - Drop?? - XEW - Hermosillo XPDR 3
Drop?? - Multivision - Childrens XPDR 10
?? is necessary unless they are on a tight spot beam not visible here. Perhaps Jim Pizzi has something new on this??

Anik C1 - Omit Chinese service found on 14 in the evenings.

Spacenet 3 - Add - 11 - VC2 PSN???

Satcom 4 - Add Request TV 2 VC2 to XPDR 17

Galaxy 2 - Add - Drive-In PPV to XPDR 15
Add - Spice PPV to XPDR 21 (was Rendezvous)

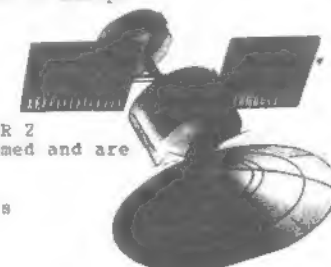
Spacenet 2 - Drop - Drive-In and Spice - move to Galaxy 2
Note - XPDR 10 is Galavision feed to Europe using PAL color format only

PanAmSat - Drop CNN Hybrid on Ku 15
- TP for PanAmSat constant on 12

Intelsat at 27.5 W - Is now V1-F4
TVE Internacional has changed to XPDR 2
Venezuelans are now tightly spot beamed and are now no longer visible here.

That's all for this time see you in 20. '73's

Change



Television news

BILL FAHBER, EDITOR
336 ATLANTIC ST
BRIDGE TON NJ 08302-2525

ABBREVIATIONS USED IN THIS COLUMN:

AATm	Height (meters) above average terrain
AS	Antenna height above ground
ASL	Antenna height above sea level
AZ	Azimuth (North=0°)
BT	Beam tilt
CIR	Circular polarization
CP	Construction permit
CRTC	Canadian Radio-television and Telecommunications Commission
DA	Directional antenna
ELL	Elliptical polarization
ERP	Effective Radiated Power
FCC	Federal Communications Commission (USA)
HOR	measured along a horizontal plane
MAX	In the direction of elevation of maximum signal strength
MP	Construction permit modification
TL	Transmitter or tower location
+	carrier frequency offset 10 kHz above standard
-	carrier frequency offset 10 kHz below standard
x	carrier frequency not offset

APPLICATIONS FOR NEW TELEVISION STATIONS

ST	CH	ERP	AATm	CITY/APPLICANT
AR	48	2500	342	Jonesboro; Banner Broadcasting Corporation
CA	39	310	405	Bakersfield; Community TV of Southern California
NY	48	83.9	206	Jamestown; Western New York Public Broadcasting Association

APPLICATIONS DISMISSED

NE	Osha; ch.54; Osha Channel 54 Inc.
TN	Knoxville; ch.15; Knoxville Community Broadcasting Inc.; Lincoln Memorial University.

CONSTRUCTION PERMIT GRANTED

ST	CH	ERP	AATm	CITY/APPLICANT
TN	15	2244	513	Knoxville; East Tennessee Public Communications Corp.

CONSTRUCTION PERMIT CANCELLED

ST	CH	CALLS	CITY
LA	44	WPFT	Baton Rouge

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS

ST	CH	ERP	AATm	CALLS	CITY
GA	23	3378	447	WELF	Dalton
KY	40	699	241	WQBB-TV	Bowling Green
LA	45	786	202	KCDN	Shreveport
PA	60	12.2	231	WBPH-TV	Bethlehem
SD	12	275	259	KIID-TV	Huron
TX	47	240	178	KTAQ	Brensville

OCTOBER, 1990

CONSTRUCTION PERMIT MODIFICATIONS GRANTED

ST	CH	ERP	AATm	CALLS	CITY
AL	34	1129	142	WDAU	Ozark
CA	61	2500	603	KKAK	Porterville
CO	53	5000	191	KWHD	Castle Rock
MI	53	1740	289	WLAJ	Lansing
NC	47	2000	188	WFXB	Rocky Mount

APPLICATIONS TO CHANGE EXISTING FACILITIES

ST	CH	ERP	AATm	CALLS	CITY
AZ	13	302	622	KOLD-TV	Tucson (cp)
AR	51	80.1	140	KFAA	Rogers (cp)
CA	19	5000	590	KCSO	Madera (cp)
CO	9	316	280	KUSA-TV	Denver (cp)
LA	29	2507	394	KVHP	Lake Charles (mp)
MN	29	4556	373	KITN	Minneapolis (cp)

CHANGES GRANTED STATIONS ON THE AIR

AZ	Tucson; KNSB-TV, ch. 11; granted construction permit to change city of license from Nogales to Tucson. Why this needs a construction permit is beyond me. Table of assignments allocates the channel to Tucson-Nogales.
CA	Riverside; KRCA, ch. 62; granted license to cover cp for changes; see 7/80 VUD.
FL	St. Petersburg; WTOG, ch. 44; granted license to cover cp for changes; ERP remains unchanged at 5000 kw max; antenna height reduced 20 meters to 454m AAT/451m AG/474m ASL; same TL.
FL	Tampa; WEDU, ch. 3; granted license to cover cp for changes; antenna raised 157 meters ASL to 473m AAT/468m AG/491m ASL; TL 4 miles southeast of Riverview; coordinates 27°49'48"/82°25'59" (AZ. 196°, 0.76 mile from former TL); same ERP (100 kw max).
GA	Cochran; WDCO-TV, granted license for changes; channel changed from 15 to 28; ERP raised from 501 kw max to 5000 kw max; antenna height lowered 14 meters AG to 350m AAT/347m AG/463m ASL; same TL.
MD	Salisbury; WMDT, ch. 47; granted MP to reduce ERP (?) from 3470 kw max/670 kw hor to 2190 kw max; reduce antenna height 8 meters to 304m AAT/305m AG/312m ASL; same IL; DA BT.
MA	Springfield; WGBV-TV, ch. 57; granted CP to raise ERP from 1200 kw max/776 kw hor to 1485 kw max; raise antenna 17 meters to 322m AAT/53m AG/420m ASL; same TL.
NC	Durham; WPTF-TV, ch. 28; granted CP to reduce antenna height 12 meters ASL to 585m AAT/579m AG/675m ASL; TL 1.6 miles southeast of Auburn NC; coordinates 35°40'35"/78°32'09" (same coordinates as WRAL-5; WNW 0.5 mile from present TL); ERP unchanged at 5000 kw max; BT.
VA	Roanoke; WBRA-TV, ch. 15; granted MP to raise ERP from 691 kw max/283 kw hor to 1820 kw max; reduce antenna 10 meters to 625m AAT/71m AG/121m ASL; same TL; DA BT.
WI	La Crosse; WLAX, ch. 25; granted CP to raise ERP from 501 kw max to 560 kw max; same TL and antenna height (308m AAT/200m AG/570m ASL).

TELEVISION NEWS - page 2

CALL LETTER GRANTS: NEW STATIONS

ST	CH	CALLS	CITY/APPLICANT
CA	51	KVMG	Merced; Wada Axell
CA	31	KVMD	Twentynine Palms; Desert 31 TV Inc.
MT	20	KVME	Billings; Echonet Corp.
NC	23	WMQR	Morganton; GMDL Broadcasting Inc.
TN	15	WKOP-TV	Knoxville; East Tennessee Public Communications Corp.
TN	50	WXJP	Memphis; Kyle Broadcasting Ltd.

TECHFORUM

Several articles sent from BILL NIENAJADLY (Clifton NJ). From the 6/7 New York Post, an update on High Definition Television: "An 'all-digital, all-American' high-definition television system developed by a U.S. company has made a last-minute entry in the race to become the U.S. national TV broadcast standard. 'We are leap-frogging state-of-the-art technology,' said Mike Walker, a spokesman for the VideoCipher division of General Instruments Corp. showcasing the new 'DigiCipher' technology in San Diego." "The [FCC] set a June 1 deadline for proposals on a 'simulcast' system that works on today's TV sets and fits into the existing broadcast spectrum. General Instruments just made it. 'The technologies that we've developed are proprietary technologies that digitize and compress the video signal,' Walker said. 'We reduce the amount of data that is transmitted, but maintain or enhance the quality of the picture. Conventional TVs would receive the standard signal, while the second signal would be broadcast and received on HDTV equipment whose manufacturers pay lucrative royalties to the owners of the technology. Other proposals before the FCC are from NHK, the Japanese broadcasting system; Zenith Electronics Corp., an international consortium of NBC with Dutch and French electronics companies and Massachusetts Institute of Technology. The systems would be tested for 12 to 18 months before the government chooses the standard sometime in 1993."

Meanwhile, the 8/21 Newark Star-Ledger reports on other forms of television improvement. "If Americans want to improve their television picture now, scientists at the David Sarnoff Research Center in Princeton may have an idea of vast appeal. Their Advanced Compatible Television (ACTV) system, developed at the laboratories over the past decade, offers a 30 percent improvement in the clarity and detail of a television image. Technically speaking, ACTV is not a [HDTV system.] But ACTV adherents say that the technology could be brought to the American public long before HDTV systems are created and implemented. In addition, Sarnoff engineers have devised a way to squeeze an ACTV signal within the standard [NTSC] signal currently being broadcast over the airwaves so that today's television sets are unaffected and only special ACTVs can decode the information." "The FCC is expected to pick a standard in 1993, but [Sarnoff Research Center president James] Carnes believes it will take much longer to work out the details of a new system before American television viewers will actually be watching HDTV in their living rooms. Proponents of HDTV systems disagree with Carnes, saying that once

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the FCC makes its decision, the transition to HDTV will take place quickly."

"ACTV falls into the category created by video experts known as enhanced definition, or EDTV, which is viewed as the next step in the evolution of TV technology after today's brand. It requires modest improvements in today's TV transmissions and small changes in the broadcast standards. The improved signal is compatible with today's TV and it will not carry so much additional information as to require greater bandwidth than is available in today's 6-megahertz TV channel." "The decoder in an ACTV television receiver processes the transmitted signal, separating the components and reconstructing the original wide-screen image on the television display. Digital audio information also would be encoded into the signal."

Even more technology in the 8/22 Star-Ledger: "Some day in the future, long after the critical decisions about high-definition television (HDTV) have been made, Jules Bellio (manager of video systems research for Bellcore) believes the real revolution will come. That's when a national fiber optic network connecting every home, office and public building in the country will make possible an 'Information Highway.' And if most homes contain a high-definition television, as Bellio believes they undoubtedly will, a fiber-linked national HDTV system will make the possibilities endless."

"In October 1989, Bellcore researchers working in Livingston conducted an experiment that proved the feasibility of economically transmitting digital HDTV signals over 'broadband' fiber optic networks. They did so by transmitting and receiving a 'compressed' digital HDTV signal over more than 25 miles of fiber optic cable with no loss in picture quality." "In Bellcore's demonstration, an analog HDTV signal is converted into the digital language of electronics and computers producing an information rate of about 622 millions of bits a second. The digital electrical signal is then converted into light and transmitted through the fiber. At the other end of the fiber, the process is reversed."

U.S.A. FORUM

What is a network? You might answer, "Uh, it's like, you know, uh, like the big three, like, you know, ABC, CBS and NBC." Maybe, "It's an interconnection of affiliated broadcast television stations engaged in the transmission of material produced and derived from a common source like you know, ABC, CBS and NBC."

In a sense, if you produce a program and air it over more than one station, you have a network. And a lot of people are eager to use that term for the status it brings, even when they have such a sinucule operation.

In order for the FCC to regulate the influence that networks have over television stations, it became necessary to define exactly what a network is. We see such definitions in Code of Federal Regulations, Title 47 (Telecommunication), Part 73 (Radio Broadcast Services), Subpart E (Television Broadcast Services), Section 73.658 (i) (1); "(v) 'Network' means a national organization distributing programs for a substantial part of each

broadcast day to television stations in all parts of the United States, generally via interconnection facilities." "(v) 'Unaffiliated network' means a network not having an affiliated station...in a particular market, even though it may have other types of agreements or programming arrangements." Elsewhere in this section mention is made of "the three national television networks."

But a more specific definition is needed to regulate network syndication and program practices. Hence Section 73.858 (j) (ii) (4): "For the purposes of this paragraph and paragraph (k) of this section the term network means any person, entity, or corporation which offers an interconnected program on a regular basis for 15 or more hours per week to at least 25 affiliated television licensees in 10 or more states; and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity or corporation." So what is our list of minimum criteria? (1) interconnected, (2) 15 hours a week, (3) 25 affiliates, and (4) 10 states.

Now, how many networks do we have by this definition? Three so far, like, you know, ABC, CBS and NBC. We could include PBS, but section (4) reads, "Nothing contained in this paragraph shall be construed to include any television network formed for the purpose of producing, distributing, or syndicating program materials for educational, noncommercial, or public broadcasting exhibition or uses." There have been other attempts, for example, Home Shopping Network. Home Shopping has the hours, but not the affiliates. The most popular attempt to date is the Fox Broadcasting Network. It has the stations, the states, and the interconnection, but not the hours. At least not yet.

Before we get back to Fox, let's make a distinction between network affiliates, network and program producer. The television station, even if co-owned by a network owner, is an affiliate, and has the right to pre-empt network programming. The network may make its own programs, which is done, particularly news programs and documentaries. But most of your entertainment programs are from other producers, such as Paramount, Viacom, MGM/UA. The networks will buy broadcast rights of a program from the producer if it can find the advertisers to support the program. The producers either sell a program to the network, or put it into syndication, in which case any television station, affiliated with a network or not, can purchase broadcast rights and find its own advertisers.

Now let's look back at this clause, "and/or any person, entity, or corporation controlling, controlled by, or under common control with such person, entity or corporation." We have Fox affiliates, Fox stations, Fox network, and Fox programs. How are they related? Fox Broadcasting Company is the network, and makes contracts with the affiliates to provide programming through an interconnection. Fox Television Stations Inc. is the direct owner of seven Fox television stations, which are also affiliated with Fox Broadcasting Company. Twentieth Century Fox Film Corporation creates

the actual programs. (If you don't believe me, check the small print on your Simpsons T-shirt.) All three are owned by parent company Fox Inc., which is itself, I believe, owned by Rupert Murdoch, a former Australian who bought out Twentieth Century Fox, TV Guide, and became an American citizen in order to purchase television stations in the United States. Once Fox expands its network lineup to the 15 hour minimum, it will also become a network by the above definition. And that clause would group Fox Inc. and its three subsidiaries into one network.

The FCC has a law that networks, as described above, are not allowed to sell syndication rights of its own programs, which they had produced themselves, to unaffiliated stations. Nor are networks allowed to purchase any rights from a program producer except the right to air that program over its network. Presently Fox is producing its own programs and syndicating some, such as 21 Jumpstreet, to other stations, even in the same market as Fox affiliates. But once Fox expands its lineup to 15 hours, it legally becomes a network, and would be prevented by law from syndicating its own programs without special FCC authorization.

With that in mind, I proceed to this article from the 7/4 *Philadelphia Inquirer*, written by Michael Hill of the *Baltimore Sun*. "Financial interest and syndication rules don't sound like fighting words, but in certain Hollywood precincts they are enough to make Suicidal-bomber types break their bottles of designer water and come out steaming."

"However, the bigger fight is being waged in Washington, where the [FCC] is considering a change in long-standing regulations that limit the number of shows that ABC, CBS and NBC can own. The FCC is also weighing a change in the rule prohibiting the networks from syndicating shows — selling their reruns to local stations across the country."

"The rules were adopted years ago, when there was little on television but the Big Three. The idea was to prevent a network stranglehold on the medium, which could be accomplished by their broadcasting only the shows that they produced. That type of monopoly is known as vertical integration."

"Nowadays, the network argue it's a different world. With all the cable channels, with the burgeoning number of independent stations, with satellite technology that allows the instant creation of a network, it's ridiculous that the Big Three are handicapped by these rules. They have a point. Paramount can create a network for *The Arsenio Hall Show* every night and for the new *Star Trek* every week, just as King World can for *Q: The Series* every day, just as Viacom does for the reruns of *The Cosby Show* every afternoon."

"Those studios get to own the shows and participate in the syndication profits of any other shows they produce. So why can't the networks, which essentially are in the same business, do the same? Well, the producers point out, the networks still dominate the medium. Producers still want to get their series, or movies, or other productions on NBC, ABC or CBS. Imagine the tyranny that could result if the

industry were deregulated. They've got a point, too. NBC could say to some producer, 'OK, you want the Thursday night time slot, then sell us 20 percent of your show for a bargain price.' CBS could say, 'You want to get this show on the air? Only if we get a piece of the syndication action.' and so on."

There is a tendency to dismiss the dispute as something akin to the baseball strike — a bunch of rich people squabbling over huge pieces of a gigantic pie. If reason would prevail, there would be plenty to go around for all. Reason has not prevailed thus far. Last month's FCC deadline passed for the two parties to reach a compromise. To no one's surprise, they failed to do so. As a result, the FCC will probably rule by the end of the year."

"The situation that brought on these regulations definitely has changed. The networks no longer have a stranglehold. But they are still by far the most powerful television outlet."

Another legal battle took place in the Supreme Court, as reported by the 8/28 *Philadelphia Inquirer*. "Hending a surprise victory to advocates of affirmative action, the Supreme Court yesterday approved government preferences for racial minorities to achieve greater diversity in radio and television programming. In a 5-4 decision, the Justices concluded that the Constitution's guarantee of 'equal protection of the laws' allows favored treatment for minority broadcasters as approved by Congress."

"The court's ruling covered two cases. In *Metro Broadcasting v. FCC*, a case from Florida, the Justice allowed the [FCC] to give special, favorable consideration to a Hispanic-owned television station in Orlando. In *Astrolia Communications v. Shurberg Broadcasting*, a case from Connecticut, the court upheld the commission's distress-sale policy, which lets a broadcaster faced with the loss of his license sell to a minority-owned business at 75 percent of the station's market value. The ruling is a victory for a Hispanic-led company in Hartford."

Another piece of news from the 10/4 *Philadelphia Inquirer*: "WYBE-TV (Channel 35), our town's new PBS station, is about to increase its programming from four to seven hours nightly. Since its June 10 launch, 'YBE has been on the air from 7 to 11 p.m. As of Monday, the lineup will run from 5 p.m. to midnight, featuring public-affairs programs, independently-produced films and whatever PBS stuff the station can get for free. Total first-year operating budget for general manager Aaron Ezekiel and his staff of seven is just \$450,000. The Roxborough-based 'YBE, not carried on any area cable systems, will have its first fund-raiser Nov. 8 through 10. Goal: \$40,000." I read elsewhere that WYBE's fundraiser was scheduled to come just before WHYY-12's."

And for more of the latest in television technology, again by way of BILL NIENAJADLY, we go to Ethridge, TN and the 8/22 *New York Daily News* (in the humor section of the news; it also appeared in the *Philadelphia Inquirer* the same day, via Associated Press): "When folks in this rural county see Junior's Little League catch or choir practice, they can call Sarah Evetts and have her play the video on her request TV station."

That's the way Evetts runs 10-watt WIOBV in south-central Tennessee's Lawrence County, about 100 miles south of Nashville. The station's prime time lineup depends on footage of birthday parties, church programs, school ballgames and a local history show called 'A Peek into the Past.' 'People'll call me up and say, 'Sarah, put on that tape of my young'un in that ballgame,'" said Evetts, the station's 68-year-old owner, program director, camera operator and technician. [The *Inquirer* adds, "Then they'll call me back and bless me out because I didn't catch their kid's good side." -wbf] Run as a hobby, WIOBV doesn't offer sitcoms, game shows or advertising. It simulcasts the old-movie fare of a UHF station in Florence, Ala., until 6 p.m., when Mrs. Evetts signs off."

"She had trouble getting [FCC] regulators to approve a location for her transmitter until she submitted the coordinates for her home. The transmitter, a metal box about the size of a portable television, sits on a shelf in a cluttered basement room. She estimates her 110-foot tower sends a signal to an area 22 miles by 8 miles. The programs go out with no editing of bloopers and no identifying title or names. 'We don't have to. Shoot, everybody knows who we are,' she said."

JEFF KRUSZKA (Hershey PA) sent this from the 8/1 *Times-Picayune*, about a 24-hour news and information commercial television station. "The Tourist Channel is available to anyone who can pick up its low-power signal on Channel 55, but it's directed at visitors." "The Tourist Channel, which goes on the air today, is the creation of two Alabama men who run a similar station in Orlando, Fla...." "The Orlando station, available in 42,000 hotel rooms, reaches an estimated 88 percent of Orlando's 20 million annual visitors...." "Special antennas at hotels and motels in Orleans and Jefferson parishes will pick up the signal and switch it to a low-numbered channel on the hotels' TV systems." Jeff adds, "No sign of this station here in Hershey yet."

JAMES NAHIRNIK (Warren MI) cautions that anybody seeing WJBK-TV (ch. 2, Detroit) identifications on channel 38 is actually watching WADL-38 in Mt. Clemens MI. "WADL-38 is currently repeating Channel 2's 5pm newscast at 8-8:30 pm, and channel 2's 8pm news from 8-9:30. In addition, the 11pm news is simulcast on both stations. The two stations are involved in other business ventures as well." "According to an article in the DETROIT NEWS, the cooperation began when channel 2 was looking for a way to relay signals from its remote news units from northern and eastern Macomb County, and Channel 38's new tower was an ideal relay location. I wonder if channel 38 will begin running CBS programs not carried on channel 2. Currently, the CBS late night offerings are seen locally on WGPB-62."

"I believe that I read in a past issue of your column that Weigel Broadcasting in Milwaukee owns full-power WJMT-TV, as well as LPTVs or translators in the same market. If this is true and legal, it seems to me that it would be a good business move for a full-power network affiliate to operate a LPTV, using their existing tower, staff, and equipment. The LPTV would be

programmed with repeats of newscasts, programs that the main station owns but is not currently using, and network programs that they don't run. If a full power station cannot own the LPTV, they could work out a business deal like channel 2 & 38 have done. In Detroit, WDIV-4 would be an ideal candidate for such an arrangement. They pre-empt so many NBC programs for Tiger Baseball, local programs and movies, that NBC is looking at buying WJBK-2. This rumor surfaced again recently after NBC sold controlling interest in WKYC-3 Cleveland, allowing them to buy another station."

FRANK ADEN (Boise ID) reports, "KIDMY and K43BE are now running 'VIDEO JUKE BOX' and actually running local dual IDs!"

Also from Frank, this article from the 9/27 *Oregonian*: "...there are plans for still another Portland television station to go on the air next year. Portland is served by five commercial stations, a station that's just about all commercials out of Salem, a public station and a religious television broadcaster. And that's not counting what more than half the population has in the way of cable. It's a crowded field."

"KCFV will operate on UHF Channel 40. Steve Whitehead, general manager of KCFV, would not say when the station plans to be on the air, only that it would be some time next year. 'We plan to operate as a locally oriented, family oriented, independent television station.' (Translated into English, that seems syndicated reruns and public-domain movies. -wbj)

Channel 40 has been allocated to Portland by the [FCC] for several years, but plans to put the station on the air were postponed when KPDX (49) started broadcasting in 1983. It is conventional wisdom that the advertising market cannot absorb more than one new station at a time.

"News that there was some activity with the channel came this week with the announcement by Star Television Network [See John Ebeling's report, to follow. -wbj] that it would begin a national network service linking some 30 cities on Saturday. Star plans to broadcast old television series, movies and 'infomercials' - program-length direct response commercials. Stations in this group will have access to all of Star's programs provided they carry four hours of the infomercials each day.

"Portland was listed as one of the initial 30 stations, but Whitehead said the Dec. 1 startup date listed by Star was in error." "...KCFV has yet to acquire a transmitter or an antenna site. 'We're negotiating for all that,' Whitehead said."

Several articles from various issues of the monthly *TV Technology* come by way of **YINGLING** (Dundalk MD). One article reports that WNET, PBS channel 13 in Newark NJ launched a SAP (Separate Audio Program) called Thirteen FM, which "offers a wide range of audio enhancements to Thirteen programming, including descriptive narration and simultaneous language translation, to viewers who have access to a stereo television."

Another article discusses channel 27 in Portsmouth VA: "When Centennial Communications bought WYAH-TV channel 27 from Pat Robertson and the Christian Broadcasting Network, the com-

pany launched a full-blown media campaign to shed the station's new name, WGMT-TV. WGMT-TV turned to Norfolk based ad agency Devie & Phillips, which developed the 'We're Changing The Channel' campaign to promote the station's new image, ownership and programming through on-air logoes, graphics, music and promotional activities. 'At a time when viewers are choosing to watch individual programs and not stations or networks, the reworked '27' is being merchandised for today's television viewer,' said Steve Bullock, agency account executive.

This article on must-carry rules for cable television: "The battles are continuing in Washington to find a broadcast industry and cable industry compromise on must-carry legislation. But there appears to be little hope in sight. Congress seems to be in a regulating mood when it comes to cable. (Isn't it always? -wbj) Senator John Danforth (R-Missouri) is getting ready to introduce a bill that would regulate cable systems nationwide." "Many broadcasters would also like to see legislation introduced to restore the so-called must-carry rules, in which a cable system must carry all local over-the-air broadcast signals. Broadcasters would also like to see copyright laws changed that they say too often favor cable systems. Broadcasters complain that some cable systems do not carry all of the local channels in favor of satellite networks. They also complain that many of the over-the-air channels carried are not carried on the favorable low-channel numbers, such as 2-13 on most systems."

How are LPTV stations doing in the ratings systems? "More viewers are watching their low-power television station, according to statistics provided by A.C. Nielsen and Arbitron, the broadcast rating services. Nielsen requires that a station show at least a 2.5 percent share of viewership between 7 a.m. and 1 p.m. to be included in its surveys. Currently, 18 LPTV stations are credited in their home market reports and an additional 179 could show reportability in the near future. Since 1986, 209 markets measured by Arbitron showed a 300 percent increase in viewership of LPTV stations. The statistics were released at the second annual LPTV conference and exposition held in Las Vegas.... What allows LPTV stations to compete with network affiliates and independents is their emphasis on local programming..."

This other article gives more insight into the progress of LPTV. "In June [1989], there were 665 licensed LPTV stations in the United States. About 240 of these were in Alaska, used mostly for an educational network. Trinity Broadcasting operates about 100, strictly as translator stations, and others are run as subscription TV services, as translators for other LPTVs, by the Public Broadcasting Service and by various colleges and universities. In addition, there are more than 200 'true broadcasters' generating their own community-oriented programming."

"John Kompe, president of the Community Broadcasters Association (CBA) in Milwaukee, estimates there are about 15 new LPTV stations coming on-line each month."

"Because about 72 percent of the LPTV

stations are privately-owned, it is difficult to gauge the overall economics of the industry. But Kompe said public companies like Channel America and Video Jukebox Network are doing well." "Kompe said the biggest concern of LPTV operators is the second class status that has been imposed upon the service. 'Many of our stations are operating in the public interest, broadcasting a minimum of 14 hours per week of local programming,' he said. 'Our strength is in localism, and it is absolutely ludicrous for our stations to be thought of as second class in any way.'"

"Channel 54, W54AF, serves an area of about 95 miles around Suoyrus, OH, about 60 miles north of Columbus. Bill Allonae, partner and general manager of Allonae Communications, said his LPTV has filled a niche by broadcasting local news, talk shows, high school sporting events and a variety of syndicated programs. 'Just because Columbus, Cleveland and Toledo stations are received in our county, we don't see our own news,' he said. 'So there is a need for our service.' Allonae believes the most successful LPTV stations are located away from the big markets where they can better serve local broadcasting needs."

Operating an LPTV station in a Top 50 market also presents many challenges. Bob Lyons, general manager, of Channel 8, W08BV in Columbus, said competing against three full-power affiliates and an independent dictates what you will be and who you will be to survive. "The advantage of being in a big city market is the large number of businesses and ad agencies located there, Lyons said. "Rural LPTV stations have fewer potential advertisers, but also less competition for ad dollars, he said."

RONALD PURDUE (Byron MN) reports that KXLT-47 Rochester MN is back on the air after being off for nearly two years. Programming consists of "TV Heaven" programs which Ronald describes as "bottom-of-the-barrel," and paid commercial programming.

More on TV Heaven from **JOHN EBELING** (Bloomington MN), from a local paper dated 9/29: "If you want to go to 'TV Heaven' you'll have to unlock your cable first. At least for the time being, no cable system in the Twin Cities area is clearing space for 'TV Heaven 41,' also known as KXLI - TV, which is scheduled to resume broadcasting at 2:30 p.m. today after an absence of nearly two years. In its new incarnation, the St. Cloud-based independent station won't be an isolated case of old TV series but, rather, part of a 'TV Heaven' network of UHF stations."

"After KXLI ceased operation in December 1988, its owner, Dale Lang, rethought the 'TV Heaven' concept and decided it would be more feasible financially if a whole string of stations carried the cleverly repackaged old TV series, reducing their operating costs in the process. Lang formed STAR Television Network, based at Universal Studios in Orlando, Fla., and began lining up independent stations to receive STAR's programming via satellite. The 30 stations that have signed up so far will receive 22 hours of programming daily, with the option of carrying all of it or as few as four hours."

"The new 'TV Heaven' differs from the old in a

couple of ways. One is that instead of themed nights, the new service will have themed day parts, including an afternoon game show bloc, a Western hour every day at 6 p.m. and a 90-minute comedy bloc at 9 p.m. The other, more significant, difference is that the oldies will share the schedule with what STAR Television calls 'direct response infomercials,' which are program-length (and program-like) commercials aimed at getting the viewer to dial an 800 number and order merchandise."

Now we know where all those old syndicated programs go when they finally die. They go to TV Heaven.

John also adds, "Looks like the shopping channels 62 and 67 have died. Nothing seen on either channel for several months now. At the end of activity, ch 62 was running the audio of WLOL-FM."

KEN OMYSCHUK (Riverdale IL) reports, "...an NRC member from West Suburban Naperville...told me about a new TV stn that s/on in August. Ch. 30 WFXV Plano, IL. It will serve the local Aurora area w/s 25 mi radius." "Haven't seen it yet - or read about it. Just tied for it. Not a sign of a signal. I'm about 42 mi. E of Plano. Need some help here." If there is such a station, it's LPTV, and WFXV wouldn't be its real call letters. Nor is it likely to reach a 25-mile radius.

A few articles from **BRUCE ELVING** (Esko MN). The 5/6 *Dallas Morning News* describes yet another LPTV operation. "Herry Tootle wants to own a television network.... Mr. Tootle says he can do it by owning several inexpensive low-power television stations." "Tootlevision Broadcasting went on the air April 13, becoming Tulsa's first 24-hour, non-religious television station. It featured talk shows, old movies and sports. But 72 hours later, lightning struck the station and knocked it out for what Mr. Tootle hopes will be only 60 days. And not being easily discouraged, Mr. Tootle also hopes to launch another station in that time." "...you only need a 100-watt transmitter, which costs as much to run as an air conditioner in your house," he said. To run his station, seen on Channel 33 in Tulsa, Mr. Tootle tapped a variety of resources. He bought old equipment from traditional television stations and developed some of his own electronic equipment. He operates programming on a personal computer. His operating cost is \$50,000 per year."

"One of my favorite examples of what people can do with LPTV occurred in a small town in Arizona," Mr. [John] Kompe [president of Community Broadcasters Association] said. "The school board president was running against the mayor for the mayor's position. The election got clouded with a lot of mudslinging. The LPTV operator got this crazy idea and invited the board president and mayor to a mud-wrestling match. Mud wrestling. You know what kind of ratings that had?"

More from Bruce Elving, Larry Fuss, Tom Yingling and Dave Sinclair next month, I hope. My disk drive just started making squeaking sounds.

FM NEWS

New FM Station, Translator Grants

AL Fort Rucker 93.1 3000 h.v.; 100 m. Sky Way
AZ Tucson KCDX-2 105.3 20 m booster of
Kerry station on 105.1 (but moving to
105.3)
AZ Tucson-Mt. Sigüenza KCDX-1 105.3, 20 m
AR Clarksville 105.8 3000 h.v.; 100 m, J. L.
Richardson (Chicago IL, via satellite)
AR Jonesboro K208AB "88.1 (WMBI-FM 90.1/
CA Lindsey 103.3 630 h.v.; 228 m, L. Beatz.
CA Merced Bay 97.4 650 h.v.; 289 m, M. B.
Investment Co. (Star Communications
CA Rohnerville 100.5 180 h.v.; 525 m, North/
CA Santa Maria K218AF "81.5 (WMBI-FM 90.1
Chicago IL)
CO Alamosa K207AD "88.3 (WMBI-FM)
CO Lamar K207AC "88.3 (WMBI-FM) J. L.
Lamora
FL Five Points 106.5 3000 h.v.; 100 m, Carol/
FL Panama City W202AB "88.3 (WMBI-FM 90.1
Chicago IL)
GA Albany W202AE "88.3 (WMBI-FM) Ltd.
GA Jeffersonville 97.5 3000 h.v.; 100 m, A.P./
GA Waynesboro WAGW 107.1 3000 h.v.; 100 m,
Clifford Jones (Brandt Best)
IL Christopher 103.5 8000 h.v.; 100 m, R. M.
Farmington 95.7 3000 h.v.; 100 m, R. M.
Mason (Metro Media of KY
IL Golconda 105.1 3100 h.v.; 137 m, K.
Kankakee "91.1 1800 h.v.; 93 m, K. Com-
munity College (Kent Landford
IL Newton 108.9 3000 h.v.; 100 m, S./
IN Bicknell 105.7 3000 h.v.; 100 m, R. M. Mason
IN Greenwood 108.7 3000 h.v.; 100 m, Greater
Greenwood Best. (90.1 Chicago IL)
LA New Iberia K213AE "80.5 (WMBI-FM/
MI Whitehall 102.5 1700 h.v.; 130 m, Pyramind
Best. (m, Radio Ingested
MN Deer River KXGP 105.5 1400 h.v.; 149/
MN Lakerville 105.1 1100 h.v.; 147 m, Southern
Twin Cities Area Radio (m, MN Pub. Radio
MN St. Peter "91.5 6500 h.v. (vertical only); 183/
MS Columbus 94.9 29500 h.v.; 160 m, Golden
Triangle Radio
MS Lucedale 106.9 3000 h.v.; 84 m, Allen Best.
MO Cassville 100.1 1000 h.v.; 151 m, the
Wodwings (90.1 Chicago IL)
MO Kirksville K214AE "90.7 (WMBI-FM/
MO Ozark 92.9 3000 h.v.; 100 m, Dorothy S.
Lemmon (Telecom. Comm., to be \$
NE Bassett "80.3 100000 h.v.; 394 m, NE Ed./
NE Chadron "91.9 8400 h.v.; 103 m, NETC, \$
NE Merriman "91.5 100000 h.v.; 294 m, NETC, \$
NE North Platte "91.7 18400 h.v.; 18100 v.; 257 m,
NETC, \$ (WSKG Public Telecom.
NY Oneonta "91.7 680 h.v.; 2800 v.; 148 m, J.
OK Byng 100.1 50000 h.v.; 180 m, Central OK
Communications (Eads Best.
OR Brownsville 102.3 350 h.v.; 283 m, J.
OR Glendale Beach 100.7 3400 h.v.; 357 m,
Stephane Linn
PA Harrisburg "88.1 260 h.v.; 68 m, Temple U.
PA Mountain top 97.1 3000 h.v.; 100 m, Fairview
communications (m, Prospect
Communications
TN Lawrenceburg 97.6 1800 h.v.; 126/
TN Smyrna 94.1 3000 h.v.; 100 m, S. Best. Corp.
TX Huntsville 94.9 3000 h.v.; 100 m, Helen M.
Casey (WMBI-FM 90.1 Chicago IL)
TX Paris K208AB "89.7 (Foundation
VA Marion "91.9 3000 h.v.; 454 m, VA Tech./
WA Seattle (Alki Beach) K201-1 "88.1 (KPLU
88.5 Tacoma), on air. "Alki Point in West
Seattle is down a steep bluff on the water-

front and needs this along with the KISW
99.9, KZOK-FM 102.6 and KIRO-TV 7
translators to get clear signals."
WY Cheyenne K204AC "88.7 (WMBI-FM 90.1
Chicago)
ON Toronto 92.5 89500 h.v., to be K. & Rawles
Ltd., one of 11 applicants for this frequency.
With CFMT 640 AM going to "hard rock"
from country, the CRTC reasoned there is a
need for a country FM station in Toronto.
Lower Milwaukee Communications, Ltd. has
appealed the decision, contending a station
for blacks is more needed. "As blacks we may
be visible, but unhappily we are used to being
overlooked."

Temporary Station
BC Vancouver VFM-11.3, mono, with simul-
cast of CBC-TV audio coverage of the
Molson-Irby Cart Race, 10 m, intended for
racepayers only. Local reporters were able to
find a few spots "32 km away in the pickup.
K217AY "81.3 Dress Island coven Vancouver
quite well, so this reduced its coverage.
Station only on during actual race; otherwise,
carrier off. No calls heard. I got the prefix
from the BOC, but forgot the four numbers
afterward."

Call Letters Assigned
AL Oscar "91.7 WYFD (WBOM)
AL Florence 98.1 WXFL
AK Anchorage 92.9 KWQJ
AR Lowell 101.9 KISK
CA Burrey "88.7 KNCA
CA Ford City 102.1 KZPE
CA Fort Bragg 96.7 KZPB
CA Indio 102.3 KRCD
CA Lakewood 98.3 KXBX-FM (KXBX)
CA Sacramento "88.9 KXJZ (KXPR)
CA San Luis Obispo 97.1 KWQH
FL Bonita Springs 86.1 WRXK-FM (WRXK);
AM is in North Fort Myers
FL Mount Dora 107.7 WMGF (WJYG), "Magic"
FL Palm Bay "88.5 WJIK (er 102)
GA Augusta 102.3 WUPW (WGUS-FM), "Power-
GA Blakely 93.1 WD KZ (WBBK-FM), still K
GA Gordon 107.1 WMRW (WYGO-FM)
GA Griffin 97.7 WQUU (WKEU-FM), a "97.7
Kool FM." SMN Kool Gold, 10 with
Jamaicans
GA Ocala 98.5 WSIZ-FM
HI Walluku 96.1 KADI-FM (KADI)
IL Carlisle 95.9 WCNL
IN Anderson 98.7 WQME; out of sequence, FM
Adm-13, p. 108
IN Lebanon 100.9 WIRE (WSCI)
IN South Bend 106.3 WGR
IN Terre Haute "88.5 WKKF
IA Des Moines 93.3 KIOA-FM (KOWZ), simul-
cast with 940 AM. "This is the third FM/AM
simulcast combined on 16 in the market—
effectively giving it three fewer stations."
IA Eldora 98.5 KXGA
KS Topeka 197.7 KMAJ-FM (KMAJ)
KS Wellington 93.5 KWNE (KZED)
LA Alexandria 93.9 KWQI
LA Arcadia 92.5 KWQW
LA Erath 107.7 KKKW (KRAR)
LA Vivian 95.7 KNCB-FM
ME Fairfield 93.3 WEZO (WUMH)
ME Thomaston 108.9 WAVX
MD Federalsburg 107.1 WOLE-FM (WOLE-
FM), but station is silent; may be bought by a
former employee (h.v.; -32 m/
MA Amherst 100.9 WRNX (WHCI), to 6000/

Bruce F. Elving, Ph.D., Editor
Box 336
Esko MN 55713-0336, U. S. A.

Contributions earnestly solicited!

MI Lapeer 103.1 WVGZ-FM (WVGZ)
MI Marquette 103.3 WFXO (WRUP)
MN Forest 107.1 KKKO-FM (KKOO)
MN St. Cloud 104.7 KCLD-FM (KCLD-FM;
AM gets new call)
MN Thief River Falls 98.3 KKKQ (KKAQ)
MS Houston 93.3 WSYE (WPCF-FM), m,
"Sunny"
MO Ash Grove 104.1 KZPO
MO Boonville 98.3 KCLR-FM (KDBX); KCLR
AM is in Reels TX
MO Perryville 92.1 KBDZ (KRAA)
NE Lincoln 105.3 KXGH (p. "Z-Rock"
NE Lincoln Village 101.1 KZAK (KLTZ),
NM Albuquerque 101.3 KZAK
NM Dulce "90.6 KJAT (KJAT)
NY Avon 93.3 WKME
NY Hancock Falls 97.5 WGBN
NY Lake Luzerne 94.7 WGBR
NY Mount Hope "90.1 WKHD
NC Falmouth 106.9 WHST (WZYZ), s. "southern
gospel"
NC Shelbyville 105.3 WCCA (WPSO), b./
OH Cardo 108.3 WWSY (WFRM)
OH McArthur 98.7 WWMF
OH Ripley 99.5 WKXD
OH Upper Sandusky "90.1 WXML
OH North Bend 107.3 KACW
PA Avon 98.9 WYPR (WYPR), r. "Power 98.9,"
ID with Willits radio, but not with Lock
Raven any more
PA Berwick 103.5 WZWB
PA Johnston 96.5 WKOS-FM (WJNL-FM), r
(AC/solid), "Kiss"
PA Meyersdale 93.3 WQZS
PA Mount Carmel 99.7 WXMW
PA Tunkhannock 107.7 WYMK (WEMR-FM), to be
m, s, with author Peter Huns, Fulton NY, to
be a part owner. Was to have come on air
last month.
SC Bishopville 93.7 WXMA
SC Easley 103.9 WLWZ-FM (WLWZ); AM is in
Spartanburg
SD Salem KIKN (KSML)
SD Sioux Falls 103.7 KRRO (KKRC)
TN Davidson WAMB-FM 106.7 125 m, (75
watts h.v.) d-a to the SSE ("matching the AM
right pattern"), to be s. m. "Operation will
be sunset to sunrise, nighttime only. Ex-
pected on air soon. . . to help resolve
problems WAMB AM has had with nighttime
 Cuban interference on 1160 kHz, by "special
temporary authority" of the FCC.
TN Henderson 107.7 WWHM-FM
TN Seymour 98.3 WJBB
TX Austin 98.1 KVET-FM (KHFI), k, so no ID,
saying "K-Vet Country 98 FM, KVET."
TX Bay City 96.1 KXBJ
TX Beaumont 94.1 KQXY-FM (KQXY-FM;
AM in Nederland gets new call)
TX Brownsville 100.3 KTEX (KTXF), still
"K-Tex 100"
TX Bryan 98.5 KBMA
TX Georgetown 98.7 KHFI (KQFX). Before call
change was approved gave an odd ID: "K
Georgetown (brief pause). K-98.7 is KHFI
Austin."
TX Kennedy 92.1 KTRN (KKCR calls not used)
TX Liberty 99.9 KSHN
TX Mesquite 106.5 KXGM
TX Rosenberg 104.9 KXIA (KFRG-FM), Spanish,
h. "Radio Mía," ID with Houston
UT Salt Lake City 103.5 KRSP-FM (KRSP-
FM); AM in South Salt Lake gets new call)
VT Derby Center 102.1 WMOO, to be o, Drake
VT Rutland 94.5 WVRW-FM (WVRL), k

FCC-FM

VT Sunderland 95.1 WJAN
VA Chase City 99.9 WFXO
VA Camas 94.7 KWON
VA Dismal 106.5 KWOL
VA Goldendale 102.3 KZPC
VA Clarksburg "90.1 WZWA
WV White Sulphur Springs 93.3 WKMD
WV Siltion 98.3 WEEZ (WLWR)
WI Lancaster 97.7 WGLR-FM (WALR), to 3900
h.v. (72 m)
WI Spooner 106.3 WXMG
WI Sturgeon Bay 98.7 WHET (WQZZ)
WI Halfway (Bedford) 96.5 CIEC, "96.5 Sun
FM," and owned by Arthur J. Hording, Jr.,
with its easy-listening automated system
computer controlled by touching a color bar
on the menu

See Also October VUD For:

AR Burling KQLX 94.5 Oldies 94, Bugei, p. 16
AR Valleyville KCTT 97.7 need to know if this
station has stereo—Fala, p. 16. I also asked this
question last month in response to Allen's report
in Sept. (p. 40). [Pugh, p. 22
CO Alamosa KALQ 93.5 Q-93.5, [p. 20
FL Fort Myers WAJY "88.7 1X, 67, Ebeling,
IA Eddyville KKSJ 101.5 Kiss FM, Ebeling, p.
20; has stereo [p. 21
KS El Dorado KBUZ 98.1 K-Buzz, Coniglio, p.
KS Iowa KIDL 98.3 ID with Chantelle, Fala, p. 16
KS Larned KYSG 108.9 may have moved to
105.5, Allen, p. 23. No indication from the FCC
this might happen. This would be a good station
for others in the area to try to check on. If so, I'd
like to know if it has stereo and its format.
LA Columbia KCTO-FM 103.1 Oldies 103 (from
"Gospel 103"), Fala, p. 10
MI Berne WXLN 104.3 is stereo and what is its
music format? Hal, p. 17 [io, p. 21
MI Harbor Springs WLTO 103.9 r, s, Conig-
MI Hastings WGBH-FM 103.9 k, Coniglio, p. 21
MI Tawas City WDBI 107.3 (from 101.7),
"Around the Dial," p. 20 [p. 21
MI Traverse City WLDL 101.8 m, Coniglio,
MS Jackson 98.3 has new call, WJDX (from
WLSL), AR, p. 23; similar to former 92.8 AM
call
NE Hastings KCNT 88.7 on air (Allen, p. 23), but
its signal is so poor! doubt it is anywhere near its
2300 h.p. power; almost unrecognizable in nearby
Grand Island NE
NY Montauk WMMN K 104.7 off air, Sprachman,
p. 6. Note East Hampton 96.7 is without call
letters. It won't be WVEH, and could be a long
time a-bull in".
NY Oswego WZDS 98.7 is s, m, Coniglio, p. 21
NC Edenton WBBX 103.1 s, same calls, Sittel, p.
25 ["Kix Radio"], Lann, p. 22
NC Elizabeth City WKJX 96.7 96-X (from/
NC Wake Forest WKFS 101.9 Kiss 102—same call ID
as WBBX 101.9, same, Lann, p. 22.
NC Plymouth WPNF-CM 95.9 96 Country,
Sittel, p. 25 [FM 104.7, "Lann, p. 23
NC Tarboro WCAS (was WAZO), "Class/
NC Windsor need to know if WDRP 98.8 has
stereo, Lann, p. 22
OH Nilesville 107.7 111 calls as WQSE, and
WAIS, and need to know if it has stereo,
"Around the Dial," p. 18
OK Okmulgee KTHK 94.1 ID with Tulsa,
Bunt, p. 25
OK Tulsa KYDD-FM 98.5 111 m 98 Country,
but might it have changed to "Country 98.7"
Bugei, p. 16
SC Mulliken WCIG 107.1 "Hot 107," a format,
Sittel, p. 24. Add to FM Adm-13, p. 186—is s,
100, 3000 h.v.
TN Oliver Springs 98.7 add WKVO calls to FM
Adm-13, p. 126. See "Around the Dial," p. 20.
TX Tascara KKYR 102.5 is Bugei's mystery
station. Note format change to k, p. 15.
VA Bridgewater WBJJ-FM 105.1, a, "Around

KJUS on air? On 105.9?

the Dial," p. 20, and change from WA in FM
Adm [k, "Around the Dial," p. 20
VA Cedar Bluff WYRV-FM 107.7 is mono,/
VA Rocky Mount WZBS 99.9, B-99.9, but what
is its format and is it stereo? Sittel, p. 25.
VA Woodstock WAZR 93.7 mono, remove
stereo listing. "Around the Dial," p. 20
WY Riverton KTKR 93.9 Big 94 FM (from
"K-94"), Bugei, p. 15

Facilities Changes Granted

AL Haleyville WJBS-FM 92.7 100 m (3000 h.v.)
AL Tuscaloosa WTUG 92.8 (from 92.7) 12500
h.v.; 289 m
AR Lake Village KUZZ 95.9 6000 h.v. (100 m)
AR Monticello KHEM 93.5 3200 h.v. (104 m),
add vertical polarization
CA Long Beach KLOH "88.1 30000 h.v.; 129 m
CA McFarland KSUV 102.9 25000 h.v. (100 m),
B1, off mono
CA Pleasanton KSAK-1 94.9 300 h-v may result
in deletion of KSAK-2 Walnut Creek and
KSAK-3 Danville, as the newly-improved
KSAK-1 will serve all three areas
KSOL-1 107.7 300 h
CA Quincy KQNC 102.1 (from 101.8) 1800 h.v.;
645 m, but so far "no sign of KQNC on
102.1," even though Shingle Springs has
moved (see below)
CA Riverside KUCR "88.1 750 h.v.; 89 m
CA San Jacinto KWRP 96.1 60 watts h.v.; 484 m
CA Shingle Springs KLO 101.9 (from 102.1)
4100 h.v.; 252 m, B1
CA Tecumseh KRTM "88.9 2450 h.v.; 100 m
CO Carbondale KDKN "90.5 220 h.v.; 953 m
CO Security KBZE 106.5 410 h.v. (680 m), C3
CO Vail KSKE-FM 104.7 239 m (100000 h.v.)
FL Colesburg WLRD-FM 98.3 50000 h.v.; 160 m, C2
GA Cleveland WGGG-FM 101.9 3200 h.v. (100
meters above average terrain)
GA Eastman WUFF-FM 92.1 4800 h.v. 111 m
GA Valdosta WZLS 96.7 6000 h.v.; 150 m, C2
GA Waynesboro WYFA "90.5 8000 h.v.; 106 m
HI Kaliua-Kona KLUK 93.9 (from 93.7 and
before that 93.5) 40000 h.v.; 882 m, C
IL Grandville KORT-FM 92.7 380 h.v.; 717 m
IL Aurora WYSY-FM 107.8 21200 h.v.; 232 m
IL Elmhurst WJXO 95.5 6000 h.v. (100 m)
IL Normal WGLT "88.1 25000 h.v.; 115 m
IN Attica WBOB 95.7 4100; 118 m
IN East Park WBNB 98.1 (from 98.3) 25000 h.v.;
100 m, B1 [50000 h.v.; 127 m, C2
KS Heward KSZA 103.9, (m, (3000 h.v.)
KY Liberty WKDO-FM 98.7 (from 106.5) 73/
[m]
MD Ft. New Frederick WMSJ 92.7 2100 h.v. (172)
MI Glen Arbor WMLB 98.1 7900 h.v.; 180 m, C3
MI Lansing WJLM-FM 97.6 50000 h.v.; 169 m,
multi s
MI Tawas City WDBI now on 107.3 (from 101.7)
MI Zeeland WJXK 98.3 4700 h.v.; 115 m
MN Northfield WJAL-FM "88.3 87600 h.v.; 308
m, transmitter Rosenburg MN, closer to the
Twin Cities [m, C3
MS Gulfport WGGG-FM 102.3 26000 h.v.; 91/
MS Piquette WZRH 108.1 (from 103.3) 50000
h.v.; 150 m [h.v.; 158 m, C2
MO Willard (new) 105.1 (from 100.1) 4500 h.v.; 89 m
MT Missoula KZDD 100.1 12000 h.v.; 98 m
MT White Sulphur Springs KZSDAD "88.3 has
KUFM 88.1 Missoula on it (not KPR "89.8
Gret Fala). KGLT Bozeman is "working on
getting a translator in Livingston MT."
NE Bennington KRRK 83.3 3800 h.v.; 130 m, 6-s
NJ Maple Valley K257-98.3 (from Logansdale)
NJ Pomona WLFJ "91.7 800 h.v.; 48 m
NY Cayce WRCD 93.7 2300 h.v.; 111 m
NY Montauk WMMN 104.7 8000 h.v. (100 m)
OH Chillicothe WFCB 94.3 8000 h.v.; 81 m
OH Coal Grove WKVY 97.1 3000 h.v. (144 m)
OH Lancaster WSWZ 103.5 9400 h.v. (100 m)
OH Westerville WGBN "101.5 (from 106.7)

November, 1990
OR Baker City (same change from Baker);
affects K2188C "81.5, KKSC 96.3, KCMB
104.7
OR Bend KIDD 98.3 7000 h.v. (215 m), C3
OR Burns K211BF "80.1 (from K2189Y 91.7)
OR Halfway K217- "91.3 (from K2189Y 91.7)
OR Hood River K223CK "84.3 (from K213AW
90.5)
OR Redmond (from Black Butte Ranch)
K206AV "89.1, Black Butte Ranch is served
by K201BP "88.1; this move is planned—the
translator is unbuilt
OR Wagonville (from Riley) K212AQ "86.3.
Wagonville is 44 km SW, but translator still
serves Riley. [m], adds d-a
PA Benton WBNE 95.9 6000 h.v. (100) [m]
PA Phillipsburg WPHB-FM 106.9 4800 h.v. (66/
PA Susquehanna WKGB 92.5 1300 h.v.; 218 m
SC Cayce WYYS 96.7 1650 h.v.; 135 m, non-DA
SC Charleston WDRN 101.1 50000 h.v.; 150 m,
C2 [100000 h.v.; 166 m
SD Fort Pierre KILI "80.1 [m, C1
SD Hot Springs KZMX 96.7 51000 h.v.; 168/
TN Grayville WAYB 95.7 550 h.v.; 221 m
TX Elgin (new) 92.5 1300 h.v.; 147 m
TX Lubbock KEJS 106.5 (from 106.3) 34000
h.v.; 179 m [87 m, C3
TX Mineral Wells KYXS-FM 95.9 25000 h.v.;/
TX Muleshoe KMLU-FM 103.1 123 m (3000 h)
TX Tyler KVNE "88.5 s-a (directional)
UT Richfield KHWZ 93.7 37500 h.v.; 819 m
VA Pulaski WPSK 107.1 420 h.v. (388 m)
WA Clarksburg K276DF 103.1 (from 90.3),
changes primary to KRFA "91.7 Moscow ID
[from KRFA "88.1 Richland WA]
WA Deer Park KAZZ 107.1 25000 h.v.; 77 m, C3
WV Dunbar WBES-FM 94.5 6500 h.v.; 189 m, B1
WI Beaver Dam WXRQ 95.3 6000 h.v.; 100 m
Stereo—Or to be Stereo
CO Gunnison KGUC-FM 98.3, new h. 1P, 67
kHz, start up soon [et 9-18
FL Tallahassee WFSO "88.6, heard testing on
WFSU "91.5, but correctly turns off its stereo
for non-music programs
IL Henry WRVY 100.5
IA Eddyville KKSJ 101.5, r. "Kiss FM"
NY Cayhill WOKZ 98.5 (mainly top 40),
"Z-98.5" (brief)
NY Oswego WZDS 98.7 m
PA Lewisburg WUNS 93.5, r. heard testing
TX Harter Heights KLFX 105.5
WA Centralia Chehalis KMNT 102.0, still k
"K-105," but correctly turns off its stereo
generator during baseball and football games.
"Areal, true small-town station. Very refresh-
ing, with lots of community oriented public
affair, sports and news."
WI Columbus WYKY 100.5
WI Wisconsin Public Radio, stations statewide,
88.3 to 91.3, now remove their stereo pilot
signals when carrying talk shows. "We will
have the ability to remotely switch the
programming of all the stations, including
turning on and off the stereo generators."
Monophonic
VA Cedar Bluff WYRV-FM 107.7, k
VA Woodstock WAZR 93.7, mono stereo
listing. It has moved from 95.9; facilities
change to 10000 h.v. (-3 m)

Format Changes
Formats are the same as in the "FM Atlas"
CA Colusa KCCY 103.1, a, SMN Pure
CA Palm Desert KEZN 103.1 m, "soft AC"
FL Punta Gorda WOLM 92.8 m, having moved
from 92.7
FL Sarasota WSRZ 106.3 o/dia
GA Athens WALR 104.7, "Low 104.7" (from
"Light 104.7"), black AC
GA Dawson WAZE 92.1 o, SMN Kool
GA Fort Valley WDBZ 16.3, p, ID with Macon,
instead of with Warner Robins

IL Champagne WHMS-FM 97.6 m
IL Joliet WJTV 93.5 m, Univ. 41
IL Peoria WLLT 107.7 m, 9
IN Elkhart WVEZ 102.7 m, "all vocals. This leaves WEFM 95.9 Michigan City as the only formatted station" in the area. Also, WWJZ 103.9 Crown Point has both band, but in the other direction, "no broadcast" if you get to Marion on WKMI 100.1
KS Good and Beautiful 102.5 m
KS Topeka WBBW-FM 97.3 k
KS Wichita KEVN 103.7 o
KY Cadiz WBZD 106.3 m, Drake
KY Henderson WGBF-FM 103.1 r
KY Hodgenville WKMD 108.3 o
KY Prestonsburg WKZJ-FM 105.5 m
KY Williamsburg WEZJ-FM 104.3 k
LA Houma KCL 107.5 k, "Bayou Country," no longer doing with New Orleans
LA Jonesboro KTCO-FM 104.9 k
LA Winnfield KVLV-FM 92.1 r, plus classical weekends, "All American Music"
ME Rock and WMMC 103.3 k. There is "more than adequate access to country and western music on our midwest radio bands, contrasted to the negligible availability of classical music." "Four country stations cover the area." "Am sending a copy of this letter to the FCC in Washington formally lodging a complaint against WMMC's change in format. The always be going to the public, and I believe the public should have some say as to the balance and type of programming by radio and TV stations licensed to broadcast by the FCC. ... Bring classical music broadcast back to Maine."

MI Ann Arbor WIOB 102.9 r
MI Harbor Springs WLTQ 103.8 k, \$
MI Hasbrouck WGBH-FM 100.1 k
MI Muskegon WMMG 107.9 g, but black gospel only 6 a.m. to 6 p.m. Sundays. "A lot of black stations are gospel on Sundays!" On Sunday nights it has "A Touch of Jazz."
MI Traverse City WLDR 101.9 m
MS Aberdeen WZZQ-FM 105.3 m, Drake AC
MS Ardena WZIX 100.1 m, "Magic 100" (from "Z-100")
MS Greenville WDMS 100.7 k
MS Utica WJKN-FM 92.9 r
MS Yazoo City WJNS-FM 92.1 r
MT Billings KBLT 91.9 q
MT Hardin KKUL-FM 95.5 o
NV Henderson KWNR 95.5 k
NY Amsterdam WKOL-FM 97.7 r
NY Cobleskill WSHQ 103.5 o. "There is not much variety in local radio in new times. Besides SHO-FM and WGY-FM, K-Lite FM plays oldies. ... WQSC-FM is classic rock and WPKY-FM also plays a lot of '60s, '70s songs. Now, fewer local radio stations seem to provide a format for fresh sounds."

NY New Paltz WFNP 98.7 p, "all alternative rock," sharing time with WRHV 98.7. Poughkeepsie/WFNP on air 7 to 10 p.m. and midnight to 5 a.m.
NY Rotterdam WSHZ 98.3 o, simulcast with WSHQ 103.5
NY Saratoga Springs WQQY 102.3 m
NY Schenectady WGY-FM 98.5 o, "Oldies 98.5" (from "Electric 98")
NY Watertown WNYR 98.5 still on and to go almost 100% satellite, causing some unemployment. "Meanwhile, WNYR continues its AM simulcast in Syracuse on the existing (but failing) WOLF AM 1490. That simulcast has been going on for several weeks, and will continue almost indefinitely."

NY Wurtsboro WZAD 97.3 o, also some rock and easy listening—"no discernable pattern of programming, stereo."
NC Eden WBSB 100.1 g
NC Johnston WDLX 93.3 m, "Lite 93" (from "93-DLX")
OH Gallipolis WGR 101.5 o, classic rock
OH Ottawa WQTL 106.3 p, not of class

OH Shadyside WEEL 95.7 o
OK Okmulgee KTHK 94.1 m, "The Hawk"
OR Astoria KAST-FM 92.9 m, "FM 93-Stereo, Soft Rock"
OR Creswell KAYE 95.3 r, plus blues
OR Eugene KMGE 94.5 m, "Bright AC"
PA Bedford WALLY 103.9 o, "Solid Gold"
PA Curwensville WOKW 102.8 r
PA Portage WKXU 105.7 k, was to have come on last spring, still not on air, but building its tower, is "said to be able to cover the nearby larger cities of Altoona and Johnstown."
PA Renovo WMHU 93.1 o, Kool Radio, simulcast with WKHL-FM 95.5 Salladuburg
SC Aiken WRXR-FM 96.3 o
SC Moncks Corner WJYQ 105.5 c (classical)
SC Mullins WCIG 107.1 s, "Hot 107," add to p. 186 FM Adas-13 is \$, 100, 3000 h.v.
SC Ravenel WMGL 101.7 s
SC Ridgeland WSHG 104.9 o, "Shag"
TX Corsicana KAND-FM 107.9 k, ID with Ennis, still "K-108" [saying "97.9 CFMK"]
TX Houston KFMK 97.8 o, no nonID/
TX Mount Pleasant KPXI 100.7 still r, not going to k
TX Pecos KPTX 98.3 k
TX San Angelo KKLK 101.9 to be k
TX San Antonio KSRR 92.9 r, "Star 93"
TX Tarrant KKYR 102.5 k
UT Provo KZOL 98.1 m, "K-96.1"
VA Bridgewater WRDZ-FM 105.1 o; change from "WA," FM Adas-13, p. 182
VA Christiansburg WFNR-FM 100.7 k
VA Cliftonch WDJC-FM 93.1 m, \$
WY Burns KMUS-FM 101.9 k, "K-Moose," ID with Cheyenne
BC New Westminster CFMI 101.1 still r, but going to a harder rock sound. The CRT, however, denied a decrease in its news.

ON Bracebridge CFBG 100.9 still m, but now programming on its own 128 hours a week. It had been receiving 54 hours a week from CFBK 105.5 Huntsville ON, and 24 hours a week from the CBC AM network.
PQ Montreal CISM 98.3 to be r, "harder pop/rock music. Students have developed plans for 16 hours a week of public affairs programming."

On Air (Selected)

CA Chico KZFR 90.1—"format eclectic—old 78s, blues, jazz, rock," etc.
IA Fort Madison KSKB 101.7 50000 h.v.; 142 m from a new "barrier any construction on delays." From a site north of Weaver on a hill on Iowa 16 near U.S. 81. Eventually it may increase its radius, but "there are no plans at present to hike the radius."
KY Paris WCOZ 96.9 (from 96.7)
LA Belle Chasse KNOK 102.8, but was off for a day "with a suspicious fire destroying its transmitter. The station manager has called for an investigation."
OR Bend KZOB 98.1
OR Sunriver K213SH 90.5, transmits from Spring Butte, 28 miles SSE
PA Philadelphia WXPW 98.5, having moved from 68.9 [from 68.7 as WNH5]
VA Chesapeake WRRV 90.3, having moved/
VA Portsmouth WFOS 88.7, having moved from 90.3
WY Mammoth Hot Springs all translators as shown in the "FM Atlas"

Off Air or Not Yet On

AR Waldron KRWA 103.1
CA Anderson KEWB 94.7, still on 94.3 "until next summer" [was 91.5-90]
CA Kings Beach KBCH 107.7; target date: 11/1 Marshall WMMC 105.9
IN Bloomfield WBSH 101.5
IN Clinton WPNL 93.9
IN Kand and WPNL 101.7
IN Linton WQTY 93.3—still on 93.5

IN Sullivan WNDI-FM 95.3 (along with its AM)
ME Bath WIGY 105.9 and WJTO AM sold for \$760,000 to Kaledioscope/L. Frank Burke of Minneapolis MN. Berleys Business Credit was owed \$6.5 million, but this is the best offer received for the station. Expected back on air after sale is approved by the FCC.
ME Kittery WCKO 106.3
MT West Yellowstone KRGS 98.5
NM Alamogordo KINN 106.3, still on 105.5
NY Montauk WMMK 104.7
NC Bathurst WKJA 101.1, still on 92.1
NC Warrington WVRS 101.3
OR Bend KBWB 105.7, going commercial
PA Patton WBRX 94.7, "since February"
SD Custer KUAA 105.1, may never be built
SD Rapid City K202AU 88.3
KTGO-FM 104.3

TX Cameron KCRM 103.9, still on 103.1. "CP for 103.9 now about 1 1/2 years old"
TX Gilmore KLSQ 96.3, still operating as KAEZ
TX San Antonio KBIL-FM 92.9 (along with AM)
VA Emporia WEVA-FM 99.5
VA Franklin WFWP 91.7
VA Petersburg WVST 91.3
VA Orange WJMA-FM 98.8, still on 98.7
WY Powell KMBU 104.1
"We're really surprised to see so many educated on FM stations off the air, since school is in session."

Deletions

IL Galva WZUU 102.5, "CP returned"
IA Grinnell KICL 105.7, "CP cancelled." May have been stalled, hoping to upgrade from an A to a C.
OR Bend K221CQ 92.1. "They said it was probably planned by the previous owners" of KXID 94.1 Bend.
PA Bamberoth WRHB 92.5, "CP is forfeited and call letters deleted"
SD Rapid City K202AR 103.9
SD Spearfish K292CW 106.3
WY Buffalo K269DE 101.7 (had been a CP), K269DE 101.1
WY Gillette K252CJ 98.3 (was licensed); K252CQ 105.5 (inactive CP)
WY Lovell K252GJ 98.3, had been licensed
WY Newcastle K280CF 103.9, had been licensed
WY Sundance K286AV 107.1
WY Worland K244CK 96.7, was licensed

SCS Services, 67 and 92 kHz

Symbols are as in the "FM Atlas"
CA San Diego KXYX 96.5 m, 67; 67m, 92
DC Washington WDDC-FM 101.1 m, 92 (FM, 67). "Their general manager was secretive but told me that Music, Inc. broadcasts on both 67 and 92 kHz."
FL Fort Myers WAYJ 88.7 m, 67, 87
ID Boise KQFC 97.9 m, 67
IL Farm Bureau on 18 mld west FM stations (data and voice); although most stations have phased out the voice, it will be letting the listeners go as they expire. It is going to satellite, along with Pioneer Hi-Bred of Des Moines and Farm Industries of Kansas City MO.
IA Cedar Falls KUHN 93.9 m, 67, R. "It's a similar service to what KGGG-FM 94.9 Des Moines and a number of other stations use."

Interesting, most educational FM SCSs have farm news or book readings. I assume they must be selling the service commercially.
MN Minneapolis KLLX 93.7 no FM, 67; retains 10, 57
WLTE 102.9 no FM, no SCS carries any more
MN St. Paul KEYE 102.1 no FM, 67; no SCS
NE Omaha. Wonder how higher gas prices can be transmitted quickly and simultaneously to distributors and dealers? blame SCA in part. Data Transmission Network, Omaha, is a leading culprit, using FM SCSs, C-band, Ku-band and cable to reach the customers. Charges are \$21.95 per month for FM-SCS.

plus additional for hardware.
NE Winnebago KSUX 105.7, 92 kHz, owned by Gary Viol of Winfield KS. "You wouldn't believe what some people call our call letters besides 'K-Stoux'." It has applied to upgrade to a C2.
OR Bend KICE 101.7 m, 67 [light rock]
BTJ Tijuana XHLTN 104.5 m, 87, [English/FM] "until November?" "Is there no October issue scheduled, or are you wishing us an early winter?"
FM Mistakes—13th ed. FM Atlas.

Look for these and correct them when your book comes

AL Albertville-Gadsden WQSB 105.1 add [...]
to indicate multiple other cities in ID list, p. 181 [not "KYHO," p. 152]
AZ Eager 92.5 calls are KTHO, [p. 178]
CA Pasadena-Chico KCHH 103.5 out of sequence, FL Marco deleted on 92.5 (is on 92.7), p. 152
FL Micayon WCLC 97.7 remove listing with Gainesville, p. 164
FL Port Charlotte WEEJ 100.1 is 100000 power is verbal (97300 h), p. 170
IN Shelbyville-Indianapolis WENS 97.1 "Lite Rock 97" nonID not included in listing, p. 163 [from 96.1 is on 96.3, p. 161]
KS Derby-Wichita KHRZ remove listing/
MA Abol WCAT-FM 99.8 (correct town; not "Atherton"), p. 169
NM Grants (not "NY") KDVC 100.9, p. 172
NM Majama KMMW 105.1 has \$, p. 181
NY Plattsburgh (not "Plattsmond"), CFE-FM "91.9," p. 151 [not "WXTY," p. 179]
NY Ticonderoga 103.9 calls are WANC, /
NC Biltmore Forest (new) 96.5 out of sequence, p. 182 [Rocky Mount from city list, p. 180]
NC Tarboro-Apex-Durham WCAS 104.3, remove/
NC Topical Beach (new) 103.9 correct spelling of city, p. 179 [150, 50000 h.v.]
OK Lawton KMGZ add to 99.5, p. 189, is \$, /
OK Perry KSLP 105.1 is "K-105 FM"; that nonID does not apply to KBLP 105.1
Lindsay OK, p. 181
PA Indiana WQMU 103.1 is 100 m (not 200/
SC Andrews-Georgetown WGTN-FM 100.9 correct spelling of Georgetown, p. 172
TN Oliver Springs WXVO calls not shown (88.7), p. 124 [h.v., p. 183]
TN Paris WAKO 105.5 facilities are 61, 3000/
TX Princeton KMFJ 104.9 has \$/terminal, p. 181
TX San Antonio 104.5 calls are KZEP-FM, not "KZEP," p. 180 [listing, p. 163]
WA Walla Walla KNSN 97.1 remove store/
BC Christi on Lake CBRI 98.3 out of sequence, p. 168 [just h., p. 174]
ON Kingston CFRC 101.9 is 3000 h.v. Inst/
NonIDs, Not Just Slogans

Mentioned on the air usually without call letters; "strict" if a station only uses call letters once per hour as required by the FCC (at or near the top of the hour)
AR Berlin KOLX 94.5 Oldies 94
CO Alamosa KALQ 93.5 Oldies 93
IN Indianapolis WFXP 103.3 still "Fox," with "strict official ID wedged in commercial break 46 past the hour."
KS El Dorado KBUEZ 99.1 K-Buzz
KS Kingman KAPH 100.3 (having moved from 99.3) Kapp 100. "On the hour they neglected to mention on the calls, just saying 'We're 100.3 Kingman-Anthony-Wichita'"
KY Elkhorn City WRAU 103.1 U-103 (r)
LA Columbia KCTO-FM 103.1 ID is 103 (from "Gospel 103") [from "G-103"]
MD Haver de Grace WXYC 103.7 Extra 103
MA Boston WROR 98.5 ROR-FM (from "98.5")
MN Austin KAUS-FM 99.8 FM 100 Country
NJ Franklin WWSU 102.3 no "102" nonID; use call letters always ["Kix Radio"]
NC Elizabeth City WJXJ 86.7 86-X (from/
NC New Bern WIKS 101.9 Kiss 102—same nonID as WCKZ 101.9 Gatorville-Charlotte uses
NC Plymouth WPNC-FM 95.9 96 Country
NC Raleigh WRAL 101.5 Mix 101.5
NC Tarboro WCAS 104.7 Class FM 104.7
OR Coquille KSHR-FM 97.3 K-Shore 97.3 (from "The Shore") [Rock (from "86-FM")]
OR Eugene KZEL 98.1 Oregon's Best/
KPNW-FM 99.1 K-Lite 99.1 FM
OR Florence KLCX 104.7 The X
OR Portland KINK 101.9 True 102 (from "Stereo 102")
PA Salladuburg WKHL-FM 95.5 Kool Radio, drops mul 6-city ID [from "Foxy 104"]
SC Mount Pleasant WDXZ 104.5 Foxy 104/
TX Bay City KMKK 102.5 K-102.5 (strict)
TX Houston KIKK-FM 95.7 Kick 95 (not strict)
TX Humbleville KHUN 101.7 All Hits FM 102 (from "FM 102") [still]
UT Salt Lake City KCPX-FM 98.7 K-88.7, /
KPNW-FM 99.1 K-Lite 99.1 FM
VA Rocky Mount W288 99.8 99-99.9
VA Yorktown WYCS 91.5 Stereo 91
WA Seattle KSEA 100.7 Mix 101, "and all the usual, boring cliché slogans. I wonder how Seattle film-shooter KXND, 'The New Mix 96,' like this? 'Still m' (same soft rock)."
WY Riverton KTKA 93.9 Big 94 FM (from "K-94")

Multi-City IDs In Use
FL Lafayette WQHH 99.9 with Tallahassee at 102 to 104 after the hour, between commercials. "All other references are only to Tallahassee."
IA Muscatine KFMH 99.7 with new tower gets out 80-80 miles; ID with Davenport, Iowa City, Cedar Rapids, "and everywhere."
MN Crosby KTCF 101.7 with Ironton, S
KS Iota KIDL 98.3 with Chanute
OK Okmulgee KTHK 94.1 with Tulsa; having moved from 94.1 with a "much improved signal" [with Lake Charles LA
TX Beaumont KVLU 91.3 [Port Lavaca
TX El Campo KXCG 96.9 with Bay City TX]

AM Happenings Most Likely Caused by FM

AR Dardanelle KCAS 980 silent, along with KWKK 102.3 FM [been news
AR Greenwood KVOG 1510 silent; had/
AR Springdale KBRS 1340 silent
DC Washington WWDG 1260 now simulcasting C4 news, 5-7 p.m. "Winners have been instructed NOT to adjust script to accommodate radio listeners."
FL Tallahassee WBSM 1410 off the air. It has simulcast WBSM-FM 98.9 for several years. "Doubt CP for 1160 Air here will ever go on the air," WTWV Woodville is FL.
IA Mason City 1010 now KRNI relying on KHKE 98.5 Cedar Falls IA; had been a commercial station, which was given to the University of Northern Iowa.
LA Oak Grove KWCL 1280 "silent for repairs"
MA Boston WEEI 590 fired in a "significant shake-up"; newscaster Leigh Harlow, announcer Carl Stevens, who were to get married anyway. Also let go: Ed Shill, news anchor, Mike Hagerly, editor and part-timers Laurie Kelm and Roger Kallibon.
WBZ 1030 reinstates Dave Brudnov, drops syndicated Tom Snyder and Sally Jessy Raphael shows, but with a shorter contract than Brudnov wanted and at less salary (see Sept. FM ad at p. 3).
MA Walpole-Boston WRCR 1330, fired; Dennis Golden. "The over-so-listenable showbiz station is cutting every corner it can."
NY New York WQXR 1680 drops midday talk, music, now fully simulcasts WQXR-FM 96.3. "The audience for the specialty shows on the AM station was too small to support the time and expense of operating a separate programming block."

OK Oklahoma City KOMA 1520 "was not rock about four years ago—they had Music of Your Life, plus old radio shows. ... They went rock a couple of years ago." But was rock earlier. WA Opportunity-Spokane KSVY 1550 becomes classical
In a study commissioned for FCC Chairman J. Stokes two found that 246 AMs, 17 FMIs and 20 UHF TV stations had gone silent. "Dark AMs represented five percent of licensed AMs. I think the 17 figure for FM is too low."

Readers' Reports

This month's column takes on a new look, as it was prepared in the absence of FMederal which missed Oct. VUD readers are so important to me that I didn't want to miss an issue for you. Look above for "See Also" and other features gleaned from the last VHF-UHF Digest.

"After Columbus Day, I received the VUD with word about the FM Atlas 13 now can be advanced ordered, so here is my \$12," writes Wendell Ford. He also sent a list of changes in his area, notably the dropping of the B format at WVEZ 100.7 Elkhart IN. He's typing the NRC 1991 AM log and as soon as he gets FM Atlas-13 he'll start on the FM side of it. The books are all printed and I am awaiting delivery of the first ones from MI. By the time you read this Wendell and others who have advanced ordered should have their copies.

Jeff Falconer sent an item about the Toronto 92.5 channel going to Rawlco (see above, "New"). Now it seems those who want a black-dance station are concentrating on 98.1, the frequency vacated when CKO went belly-up. The appeal for 92.5 went nowhere, with the "federal cabinet" (whatever that is) agreeing with the CRTC that the country music format proposed by Rawlco get the nod. Apparently, this "federal cabinet" includes Communications Minister Marcel Masse, Masse, a government employee, says he can't order the CRTC to give the next license to a black-oriented station, since "the CRTC operates at arm's length from government."

A FL mystery—Chris Dunne has heard from the opposite coast a "Gulf Country" (k) station there, and he's wondering if WGUF 92.7 Marco is on. It was obviously too weak to tell if stereo or not. He's gotten E-kiss to Central America in September. "Lord willing, Danny B. will have it for Nov. VUD."

FM Filters' News

Erie Sundius sent information on ceramic filters from a Murata Erie catalog. "I have not ordered any 110s or 130s yet, but when I do I

will let you know where I ordered them, and how they performed.

"I have modified five tuners, a Superadio and a car stereo with 150 kHz filters. I had the most success with a Marantz digital receiver, model SR 440. This unit required three filters. I can now DX frequencies adjacent to strong locals with very little splatter. And I have adjusted the stereo threshold to a very low level so that I can DX in stereo. The performance is much better than my Heathkit AJ-1510 tuner. I achieved moderate success modifying a new Sherwood RA-1140 receiver. This unit cost only \$88 new, and has 16 presets. I have defeated the automatic FM muting and replaced the ceramic IF filter with a 150 kHz filter. This receiver will make a good auxiliary tuner, at an excellent price. Keep up the great work on your column." Eric might want to consider writing an article saying in general terms how you can defeat the automatic FM muting to permit DXing in stereo on receivers that combine the muting with the stereo switch.

"You listed new 98.5 in Rocky Mount NC in 7-89 VUD, but missed the boat on 'Call Letters Assigned?' They are WSAY-FM and are already on air," says Gus Mancuso. I understand it is country, stereo. "WJMA-FM still 96.7—jump the gun, jump the gun! WRCC Dunn NC (x 103.1) to 103.5 in effect OK. . . Got 112 in New Barn and 158 from Emporia VA. Range was from DC to GA from both spots; only weird catch was WWSN 107.7 Ohio from Emporia, in for almost an hour with no fade!" Next June he hopes to go to South Hill VA. "It should be great—after 11 p.m. closest station on air will be 93.5, 25 miles away with only about 10 within 50 miles; 88-92 is actually too clean. . . The 158 from Emporia is my two-night record now. Hope to break the three night work of 169 from Bellefontaine OH in 1989. . . Anything under 200 will probably disappoint, especially with skips and/or staying four nights. Also good is WPGT goes off 7 p.m. and WPTM at 12."

Mike Cherry sends word of a solar-powered station, IRIE-FM ("eye-ree FM") in Ocho Rios, Jamaica with 7 kw, 24 hours stereo on 107.1, with a relay on 107.5 at Port Antonio on the east coast. "They play reggae and nothing else [and] everywhere you go in Jamaica you can hear Irie-FM coming out of houses, cars and boomboxes! Although only on the air for approximately five months, it is quickly becoming a favorite with locals of all ages. Nice signal. . . JBC-FM and RJR are reported to be increasing the ratio of reggae in their music formats. [Also] some Spanish stations that might have been tropo from Costa Rica were heard on Jamaica recently". In the '60s, FM was reported on that island from Costa Rica and some of the other Caribbean islands via tropo and skip from Brazil. Reception of Colombia and Venezuela was probably tropo. "I hope there won't be a postal strike here in Canada—I would sure like my new FM Atlas plus a chance to get the Christmas mail before this has passed!"

Mike writes about an FM DX aid, a booster or FM pre-amp which is located at the receiver: "The Magnum Sleuth 150 never ceases to amaze me! It literally sucks the weak-signal tropo (and probably aurora when that mode is usable) out of the scatter! I'm even able to get decent stereo reception out of my regular tropo and tropo-skip stations! I have yet to try using it with my 1-watt FM exciter, but that experiment will be soon coming." Mike had one mystery from his recent DXing, which turned out to be KTNE-FM *91.1 Alliance NE.

"I enjoyed Joel Rosenberg's article on DAB tests and I observed the same video and audio modulation characteristics," says Mike. "Frequencies used here were

797.5 and 800.5 mhz (1 kw ERP). Vancouver's tests ended around Aug. 23. Enclosed are some frequency flyers from the CBC's recent open house in Vancouver. Dave Sinclair brought them over when he visited. We four-wheel drove up to the Mt. Bruce bandscan mountain-top location (54 stations) and hopefully Greg Coniglio will have our bandscan report published soon. We got to tour the CKVU-10 and CBU-FM1 facility on nearby Hope Hill, Mt. Tuam on Salt Spring Island. The 'meter reader' wasn't actually on either station's engineering staff, but was paid to take the twice-weekly readings. He seemed to know little or nothing about wave propagation other than ground-wave and had some vague explanation about CBC having problems picking up their stereo service signal from Vancouver. . . For now they are using a Sony receiver to pick up the primary feed on 105.7 for rebroadcast. . . During my Sunday, Aug. 26 'Rockers' reggae show on CTR *101.9 Vancouver I got a call from an Es listener in Wray CO who was picking us up in Stereo. . . The listener wasn't a DXer but had noticed DX FM stations in previous years. . . See, it does pay for Canadian stations to spew out their call letters and request line numbers. If any WFTDA members pick us up, the number is (804) 228-2487. I'm on noon to 3 p.m. Pacific time. If I knew an opening to BC was in progress, I would give the calls often enough to help DXers verify CTR. . . One of these days I must get with it and order up some 180 and 150 kHz filters for the Sansui receiver."

Eric Fader mentions sharetimers WRHY (not "WRHB") *88.7 Poughkeepsie and WFNP *88.7 New Paltz NY. Not too often a DXer can legally count two local stations on one frequency—but here's your chance. I wonder, however, if WFNP has stereo. "Also WZMX 93.7 CT is 'The New Mix 93.7 FM' [playing] what the industry calls 'bright AC'. I call it truly terrible music. I assume you already know that WWHB NY 107.7 now simulcasts WNEW-FM 102.7 with local Long Island [Hampton's] ads."

Greg Hardison: "Please send me the 13th edition ASAP—wouldn't miss it for the world! If we do another DX show this year (with Ray Brim), you'll probably get a call. No longer airing on national radio. This has taken some of the fun out of it all, though. Keep up the extraordinary work!"

Tom Bryant is going to be listening for the new WAMB-FM1 106.7 Donelson TN, a rarity among FM stations. It will be a nighttime-only station (see above, "Call Letters"), and he may send a tape if it reaches his QTH on the WSW side of Nashville.

Fellow editor Bill Nienajedly addresses an issue I have had to contend with. Bill says: "I honestly wish that any complaints of any column should be addressed to the editor and sent to them directly, not to HQ where they will be printed and make us editors look like buffoons, jerks, etc." In an earlier letter to Bill Thompson, Bill N. said he's "sick of seeing Greg's column trashed. This is the second or third time." I rather like Greg's variety of type fonts. I suppose, however, after direct complaints to the editor don't yield results, then a member could write club HQ to try to bring about changes. I think most complaints are from a fringe part of the membership and don't reflect the reality that each column has a group of loyal readers who enjoy the columns as they are. Bill sent an obit on Paul Lockwood, 51, newscaster at WBAZ Southold NY, who collapsed on the job as he arrived to do a remote at the Polistown Fair in Riverhead. And he sent an article from the NY Daily News on digital radio, "Will Radio Become a Wave of the Past?" 73, *Paul Lockwood*

QSL CORNER & LOGOs RUN

Thomas J. Yingling, Jr., KAJTCC/AC
221 Pinewood Road
Baltimore, MD 21222-2345
Phone / 301-282-5649

Q>D Q>D Q>D Q>D Q>D Q>D Q>D Q>D Q>D

ON C7SD 94.9 Thunder Bay, 87 North Hill St, zip P7A 5V8. Letter & bumper stickers from Tim Goebel, Program Dir. back in about 2 weeks. (B.Hall)
FL WAYJ 88.7 Fort Myers, P. O. Box 081276, zip 33608. Letter, t shirt & bumper stickers back in 10 days from Randal Eugene "Skip" Spence, Program Dir. & Chief Operator back in 25 days. (B.Hall)
PA WHPA 104.9 Hollidaysburg, Box 404, zip 16948. Letter, fridge magnet & coverage map from Gary S. Magill, CE back in 2 weeks. (B.Hall)
TX KPRC 2 Houston, P. O. Box 2222, zip 77252. Folder-qsl card from Lynn Salerno, after 1 follow-up report one year later. Also send 2 logo stickers. (T. Yingling)
SD KDLT 5 Mitchell, % 3800 S. Westport Ave., Sioux Falls, SD 57116-0186. Letter from Donald Sturezenbecher, CE after one follow up letter send 3 years later. My first letter was not answered due to the studios were moved to Sioux Falls, and with it being busy time for engineering. (T. Yingling)
NE KDUH 4 Scottsbluff, 1620 First Ave., P. O. 1528, zip 68361. Letter, stickers from Wayne A. Nestor, CE, after one follow-up report. (T. Yingling)
KS KLBZ 4 Colby, 990 S. Range, zip 67701. Letter & coverage map back after one follow-up report from Leroy Steckman, CE. (T. Yingling)
GA WQXA 24 Macon, P. O. Box 340, zip 31297. Letter from Kim T. Bene', Program Director/Operations Manager after one follow up report. (T. Yingling)
AL WVOB 91.3 Dothan, P. O. Box 1944, zip 36302. Letter from Steve A. Shuesake, Mgr. mentioned hearing CB skip before, "but this certainly one for our record book" Send bumper sticker, & book about Bethany Bible College. (B.Elving)
CO KSYF 86.7 Denver, 8875 E. Kenyon Ave, zip 80237. Letter sign by Craig Roberts, Ch. tells about their directional antenna to protect a nearby "quiet zone" from electromagnetic interference, and hoping I'll try for their AM on 830khz. (B.Elving)
CO KCFR 90.1 Denver, 2249 S. Josephine St., zip 80210. Letter from Robert J. Hensler, CE saying it has been heard in southwestern Canada two years ago. (B.Elving)
CO KMLI 106.3 Widefield, % P. O. Box 17380, Colorado Springs, CO zip 80935. Letter from Bob Scott, no title. Letter tells of 71 watts, but having a CP for 1600 watts. (B.Elving)
ID KZMG 88.1 New Plymouth, % 1002 Franklin St., Boise, ID 83642. Short note from "Mac, CE" who says as a ham he's aware of skip. (B.Elving)
LA KMDL 87.3 Kaplan, % Box 30490, Lafayette, LA 70503. Letter from Ernest J. Alexander, GM saying it's amazing they were heard so far. Send coffee mug, bumper sticker, & key chain. (B.Elving)
LA WNO 89.9 New Orleans, just zip of 70148. Letter from John S. Betson, GM mentions about being heard in New England (Mike Bugai?) (B.Elving)
MS WUEH 88.5 Hattiesburg Box 10045, zip 39406-0045. Letter from Torie Hurst, Program Mgr mentions also being heard in MO & IL. (B.Elving)
MS WHAW 88.1 Meridian, % FRM, Box 4343, Jackson, MS 39218-0343. Short letter from Mike Morgan mentioning also being heard in Halifax, NS. Also send program guides bumper sticker & note pad. (B.Elving)
MT KKEI 88.1 Havre, P. O. Box 2428, zip 59501. Letter from Ed Metter, GM mentioning skip bothering their regular listeners. My reception most distance and to be honest with you, I would be surprised if you ever hear us again. Send sticker. (B. Elvings)

WATR
92.5 FM

94.3
Wdif

MT KLCH 95.9 Lewistown, P. O. Box 620, zip 59457. Short letter from Tina Boswell, Program Mgr mentioning the AM being heard in AL, but no dx record on the FM. "There are many mountain ranges surrounding Lewistown and some towns in our coverage area can't pick us up!" Enclosed coverage map giving a false frequency of 95.7 mhz. (B. Elving)

NV KNPR 89.5 Las Vegas, 5151 Boulder Hwy, zip 89122. Letter from Lamar Marchese, Pres. & GM says "I think you get the distance record for listening to our station. The previous record was held by a radio enthusiast in Vancouver, BC (Mike Cherry ?) He found it pretty amazing that I could detect his 2 SCAs. (B. Elving)"

NH KPCL 95.7 Farmington, P. O. Box 232, zip 87499. Letter from Farhad Ayoub, Station Mgr says he "was surprised and shocked to hear from someone who lives so far from Farmington, NH. What kind of Ph.D. are you?" Later send a second letter mentioning being heard by Nigel Pimblett in Medicine Hat, AB Canada the same day I received them. (B. Elving)

TX KNTU 88.1 Denton, P. O. Box 13685, zip 76203-3685. Letter from Russell Campbell, Development Director who send sticker & letter explaining their complex directional antenna pattern when school hour station KEDM 88.3 Mesquite, TX is on air, & when not on air, they also protect KJBR 88.3 Keene, TX. (B. Elving)

OR KLAD 92.5 Klamath Falls, P. O. Box 489, zip 97601. Letter from D.B. Hagen, Eng. who accuses me of being their most distant listener, says they are 63ku circular, but FCC shows only horizontal. (B. Elving)

SC WLFJ 88.3 Greenville, 2420 Wade Hampton Blvd., zip 29615. Letter from Allen Henderson, Operations Director, send program guide & brief letter "Someone claimed to have picked us in Haiti once for just a few minutes. It's strange when that happens." (B. Elving)

AB CJSR 88.5 Edmonton, Room 224, S.U.B., University of Alberta, zip T6G 2J7. Letter from Ian Istvanffy, Station Mgr. says they're 44.5 watts "A few months ago someone in Finland received our signal" (I ? !) (B. Elving)

AB CJAY 82.1 Calgary, Box 7080, Station A, zip T2C 3L9. Letter from Steward Meyers, Program Director also send t-shirt, sticker and says they were heard in Dallas, TX a few years ago. (B. Elving)

AL WVAS 90.7 Montgomery, Alabama State University, zip 36101-0271. Prepared Card signed by S. Myers, received back in 1 month (R. Ross)

AL WDOF 89.7 Dothan, Box 127, zip 36302. PFC & sticker back in 1 month from Mike Boldenfield, CE. (R. Ross)

AL WHBL 91.3 Florence, Box 1BC, zip 36630. PFC & qsl card from Jim Lancaster, Sales Mgr in 1 month. (R. Ross)

MS WYMX 89.1 Greenwood, Box 1686, Browning Rd, zip 38930. PFC & bumper sticker from Keith Worrall, CE in 1 month. (R. Ross)

FL WILN 105.9 Panama City, Box 1790, zip 32402. PFC & letter from Jim Broedhus, Pres. in 1 month. (R. Ross)

KWNS 104.9 Winnebago, P. O. Box 54, 337 N. Main, zip 75494. Letter from Richard E. Foster, Owner reply back in 16 days. (B. Hall)

MT WKKB 99.1 Iron River, P. O. Box AC, zip 49935. Letter back from Kurt J. Paro, CE in 15 days, and also send bumper stickers. (B. Hall)

TX KODA 99.1 Houston, 4810 San Felipe Rd, zip 77058. Letter, sunglasses, magnet, & bumper stickers from Dusty Black, Vice Pres/General Mgr. in 15 days. who says "By receipt of this letter you are hereby proclaimed an official member of the KODAKREW." (B. Hall)

AR KMAG 99.1 Fort Smith, 423 Garrison Ave., zip 72901. Letter, medal kits, bumper stickers, buttons, & balloons all from Del Williams, Sales Mgr. in 13 days. (B. Hall) (you must like doing 99.1 ? editor)

ON CHED 101.1 Smith Falls, P. O. Box 1200, zip K7A 4T4. Letter, bumper stickers, key chain from Brian Perkin, Program Dir. in 9 days. (B. Hall)

PA WKYE 95.5 Johnstown, 109 Plaza Dr., Box 309, zip 15907. Letter & bumper sticker from James J. Boxler, CE in 7 days. (B. Hall)

NY WCIZ 97.5 Watertown, RD2, Gifford Rd., zip 13801. Letter from Holle Helix "It's always great to hear from a faithful adoring worshipping listener!" reply back in 10 & 3 flashy bumper stickers to show off just how hip you really are! (B. Hall)

LA KDEA 89.1 New Iberia, P. O. Box 12948, zip 70628-2948. Letter from Donald Bonin, Owner & General Mgr. in 14 days. (B. Hall)

OH WHDL 88.9 Ashland, Ashland College, Dept. of Radio/TV, zip 44806. Handwritten letter from Sara Bontempo, Music Dir. to reply to my phone call too, back in 12 days. (B. Hall)

FL WQCS 88.9 Fort Pierce, Indian River Community College, 3208 Virginia Ave, zip 34961-5599. Letter from Jill D. Roberts, Public Affairs Director, back in 14 days.

Very odd letterhead paper, does not show call sign or frequency. (B. Hall)

NY WBSU 88.1 Brookport, Seysour College Union, State University of NY, zip 14420. Handwritten letter from Michael D. Hall, (Wolfchild), no title, back in 2 weeks after phone call. Also send 3 buttons. (B. Hall)

Lots of QSLs this month and some logos. Reporters are Bruce Elving, Robert Ross & new reporter of Bruce Hall. No news on my new computer yet. Now need money for monitor. The big news is I passed the Amateur General Class test at last. So, that explains the /AG on my call. Until I get new ticket in mail, and I'm keeping the call KASTCC. At the convention in Virginia there was some talk of getting a list of all WITFD members that are hams (amateurs), and try to get a tv/fm dx net on HF. I was surprised just how many so far are getting their license. If any members that are hams are interested, please write to me. I hope most are at least a general class so we could use lower bands beside 10 meters. 73 till next issue, and please report. I have little left to use, which will explain why I have been skipping a month between columns. One point I must make on all qsl items report, you MUST give all information. Don't just give me the call sign, without the frequency or address as I did had to drop some items. Also please use a regular size typewriter print, as its' kind of hard reading such small print. Until later on keep on doing, qsl'ing, and reporting what you got.

KWNS 97.5 CIZ FM
104.9 FM

32 NEWS AT 9
Chicago's News of Choice...Not Habit.

In Touch With Tampa Bay
8 WFTS-TV

Super 66
WGBO-TV

WKPT 19
KINGSPORT and JOHNSON CITY
BRISTOL
Smo!

P. O. BOX WKPT • KINGSPORT, TENNESSEE 37662

Channel **55** WYIN
WKYC
BINGHAMTON

KQEG-FM
505 King Street, Suite 221
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Weather
Don't let Mother Nature fool you. Tune in
24 hours a day.

WRDL
88.9 FM

Sunny 95
WSNY FM

KMAG 99

Key 95
DIGITAL 95.5

TECHNICAL TOPICS

Back in the April '90 VUD my first article appeared, covering the more technical side of selective ceramic filters for FM DX improvement. I appreciate all the comments, letters, and help that followed from fellow club members. During the last several months I have been able to do a bit more research and experimenting in the lab...and the results have been very successful. This part 2 of 2 will be very results-oriented, with actual test data. Perhaps this article, together with the one in April, will give readers a complete reference on the subject of ceramic filters.

WHAT YOU SEE WITH YOUR EYES

Almost everyone who's tried installing narrower filters has noticed that they are very lop-sided; that makes the tuner more selective on one side of a channel than the other. More observant DX'ers have noted that while close-in selectivity is much better with narrower filters, alternate channel selectivity is degraded. The most persistent experimenters (myself included) who have managed to locate filters with bandwidths of 130, 110, and even 55 kHz have been less than enthused after trying them. All of these effects can be explained.

First, these little filters do not have very tight tolerances. Not even as tight as I originally believed. There is a very noticeable unit-to-unit difference in each of the following characteristics: center frequency, ripple, and bandwidth. Center frequency can vary +/-30 kHz according to the data sheet, but in my collection there are a few that are as much as 75 kHz off (I define center frequency as the point of minimum loss in the passband—this is what you care about when tuning). If you buy three filters having a nominal bandwidth of 110 kHz, and cascade them, you might have an overall bandwidth of 170 kHz or more!

Ripple varies significantly from unit to unit. Notice in figure 1 how different the two curves are. These were both 110 kHz filters, bought at the same time, from the same source. One is very flat in the passband (this is desirable), while the other is somewhat lop-sided. This contributes noticeably to distortion—especially if several of these are cascaded. And bandwidth, typically defined as the range of frequencies over which the filter passband is 3 dB down, varies from 20 to 25%. This is complicated by the ripple problem. Together these discrepancies can make the tuning action of a tuner very lop-sided. (Attempting to internally adjust the IF to match the filters doesn't work.)

I have found that by buying, say, 20 filters of a particular type, I can measure them and thereby hand-pick only 4 or 5 that have a nice flat response and a center frequency very close to 10.7 MHz. Then when I cascade them into a tuner, the performance is noticeably better than if filters are chosen from the lot at random. All of this suggests another reason why manufacturers use wider bandwidth filters in their products than one might think necessary. Over a run of thousands of front ends, it increases the probability that every one will work satisfactorily without the expense of workers hand-selecting every single component.

In Figure 2, there are three curves. These represent actual (not advertised) data for three Murata filters I obtained from the manufacturer. One is a 55 kHz unit, one a 110, and one a 150. Notice how the 150 unit is off-center, but relatively flat. This would cause a tuner to have noticeably (in this case, about 10 dB) better selectivity on one side of a channel than the other. If I used more than one, this lop-sidedness could be significantly better or worse. The 55 kHz unit is not only off-center, but is not at all flat near the center. As expected, when installed, this garbled up the audio so bad that nothing could be understood. Most importantly, notice the stopband attenuation. Ideally, you would want a filter to completely kill an adjacent channel. Nature won't allow this, but the typical ceramic filter is not too shabby. The 150 kHz unit attenuates all the out-of-band signals by at least 45dB. The 110 kHz unit doesn't do so well, about 3dB less on average. The 55kHz unit is about 10dB worse yet. The point is this: just because a narrower filter is used, overall results may not improve. You want to increase adjacent channel selectivity, but *without decreasing* image rejection and *alternate* channel selectivity. More is not necessarily better.

WHAT YOU HEAR WITH YOUR EARS

Figure 3 is a summary, in general terms, of what I've learned in the lab and from experimentation. It attempts to communicate the tradeoffs discussed in this article.

Along the horizontal axis is a range of possible filter bandwidths (it doesn't matter how many filters are used in cascade for this graph). The DX'er wants the narrowest bandwidth possible. As you might expect, going to wider bandwidths increases distortion and decreases intelligibility because the two adjacent signals begin to overlap the desired one. (If there are no adjacent signals, the same result occurs because more noise is received: a decrease of SNR). Going to ever-narrower bandwidths increases distortion and reduces intelligibility because less of the information in the signal is recovered and because the filters are not as well behaved. It is clear where the happy mediums are to be found.

OVERALL IMPRESSIONS

For these experiments, I use a Pioneer TX-7500 tuner, a nice analog tuner from the late 70's that I bought used for \$25 at a yard sale. It came with three filters, which I replaced with sockets to facilitate experimentation. A Probe Nine antenna up in the attic is my signal source. The dial here is, of course, very crowded, with all channels (except 100.5) deep with stations. I tried 55kHz filters. Even with just one, all of the adjacent problems go away...there was even dead space between adjacent stations. Unfortunately, the audio that came out of the speakers was so garbled that even strong local stations were practically unintelligible. Plus, there were some image problems. Then I used 110 and 130 kHz filters. With these, the audio was acceptable, but the very weak stations were still hard to understand. You could hear distortion on musical peaks (=maximum FM deviations). Further, the stopband attenuation of these units was worse than the original 230kHz factory filters. I found I had to tune very carefully to avoid splatter from adjacent and even alternate channel stations.

[NOTE: portable radios typically only use one or two filters and narrower band discriminators—these might really benefit from use of the 130's and 110's. For example, the Radio Shack DX-440 uses two filters. I replaced them with a 130 and a 110 and it made a fairly dramatic improvement. Gus Mancuso does most of his DX'ing on one of these now. A GE Superadio would benefit from a 130 or even 110 and a bit of tweaking.]

180kHz filters will always be a big improvement over the factory filters, particularly if cascaded, and you pay almost no penalty in audio distortion. 150's will be a little better. Going from a 230 to a 150 can be expected to buy you about 15-20dB improvement in ACS. To achieve even better selectivity the secret is to cascade several units. For example, a set of five, properly cascaded, could have 54dB/octave rolloff and 80dB of stopband attenuation. The circuit presented in Figure 4 takes advantage of this by correctly cascading and matching five filters and providing enough gain to overcome their loss. The 150's gave the best overall performance and were unbeatable when cascaded. When I selected the best of my 180 and 150kHz filters using a spectrum analyzer and a sweep oscillator, and built up a 5-filter circuit (as shown in Fig. 4) using these, and installed it in the TX-7500, it produced the best DX performance I've ever been able to achieve. (I'd love to do a side by side comparison with a MR-78 sometime.) With this circuit inserted between the front end assembly and the IF strip, I have about 30-70dB of ACS! (The -3dB bandwidth is 115kHz; the -40 dB bandwidth is 260kHz; and the stopband attenuation is better than 70dB. The center frequency wound up being off by 20kHz—hence the "30-70dB.") With a rotatable antenna on the TX-7500, I can now DX on any FM channel.

The circuit presented in Fig. 4 could be built for less than \$20 by just about anyone; there is nothing tricky. In fact, the easiest method of construction would be to start with a piece of 3.5" x 1.5" board and lay out the components in the same positions as they appear in Fig. 4. Then just use the leads of the components, instead of cutting and stripping wire, to make the connections. Use coax to make the input and output connections to the tuner. It can be installed between the IF and RF section of any tuner having an IF of 10.7MHz, even those older tuners made before the introduction of ceramic filters. Or, it can be installed in place of an existing ceramic filter (leave off the 560- and 100-ohm resistors on the input). Overall circuit gain is set at -5dB (to match a ceramic filter and also keep noise at a minimum). The circuit can be powered off the tuner's B+, anywhere from 9-15V.

I know the average person does not have access to RF equipment for checking out individual filters...and that the tolerances of Toko, Murata-Erie, and TDK filters are not very tight...and what effects the filters have on the audio quality and distortion. (See Figure 3.) I also know that of all the filters I've tested, it seems the narrower bandwidth units have worse image rejection (although there is no theoretical reason for this). Therefore, I feel that the 180kHz units offered by Digi-Key and the 150kHz units from Hosfelt (at only \$1.00 each!) are the best overall compromise. I really don't see any advantage at all in fooling with narrower filters than these.

RECOMMENDATIONS

If you have an analog tuner, you have an advantage no matter what factory filters come inside the cabinet. Just replacing the existing filters with 180kHz units will make a dramatic improvement in your ability to tune adjacent channels, and you will probably not notice the slight loss of highs in the audio. By going to 150 kHz units, your DX performance improves more (this is especially good in car radios)

If you have a digital tuner, e.g. one with synthesized tuning which can only allow you to tune in discrete (heaven forbid, only 100 kHz!) steps, you need to use a narrower filter. The 150 kHz units are still your best compromise. 130's might do slightly better, but don't bother unless you can get them easily. The problem is your tuner's inability to off-tune--an important DX capability no matter what filters are used. Not to sound defeatist, but the owners of most mass-market receivers and tuners will find an FM section with 200 or 100kHz tuning steps and no more than 2 or 3 filters. These owners will never notice any dramatic improvements if they have many stations on the dial (which is just about everywhere these days)

If the tuner has 5 or more filters already installed, don't try to replace all of them with the narrowest units you can find. You will be much more successful if you first identify the order they are wired in the circuit, and leave the first two as factory stock. Then replace all the rest with moderate bandwidth, say, 180kHz units. If you have a 150 lying around, you might try replacing the *last* filter in the series with your 150. If you replace the entire chain with 150 kHz or narrower filters, you are in for disappointment (unacceptable distortion and degraded image rejection)

If you have one of the older (pre 1970's) tuners, chances are near 100% that no ceramic filters are used at all. If you aren't satisfied with the performance of these, you could be in for a real treat if you take the trouble to change it over. (I have in mind the kit tuners sold in the 60's.)

To conclude this article, here is a table listing the specs of all the filters I can get my hands on and test out. Good luck with the circuit if you try to build one. Any questions or comments, feel free to write. If you need help modifying a very old tuner, please enclose a circuit diagram of same, and an SASE.

TABLE 1. Comparison of various ceramic FM IF filters

model	BW	A	B	C	D	E	F	G	H
SFA10.7MF5	55kHz	-37dB	-40	-7.0	-3.5	-3.5	P	170kHz	P
SFE10.7MH-A	110kHz	-32.6	25.0	-8.5	-39.2	-57.1	F	350kHz	F
SFE10.7MK-A	130kHz	-32.7	-27.2	-7.6	-43.4	-60.3	F	350kHz	F
SFE10.7MJ-A	150kHz	-29.6	-23.9	6.5	-36.4	-59.4	F	380kHz	F
SFT10.7MS3-Z	180kHz	-29.4	-10.7	-9.0	-32.4	-50.5	F	520kHz	G
SKM-3	180kHz	-32.6	-30.1	-6.6	13.2	-46.1	G	n/a	F
SFE10.7MX-Z	250kHz	---	---	---	---	---	G	670kHz	E

All models from Murata-Erie, except SKM-3 is from Toko.

All data measured in lab unless otherwise noted

BW=advertised -3dB bandwidth, A=attenuation -400kHz from center frequency

B=atten. 200kHz from c.f., C=atten. at c.f. (insertion loss); D=atten. +200kHz from c.f.;

E=atten. +400kHz from c.f., F=spurious response (Poor, Fair, Good, Excellent), G=-20dB

bandwidth, from manufacturer's data sheet, H group delay (P, F, G, E)

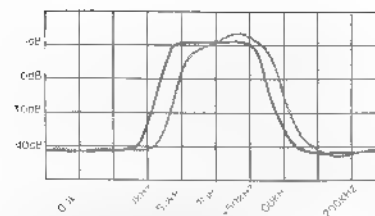


FIGURE 1 Plot of two 110kHz filters showing ripple and center frequency variation between units

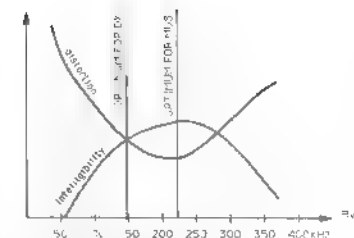
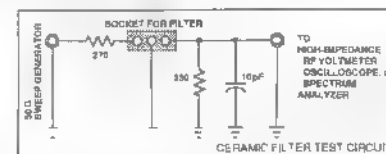


FIGURE 3 Plot of filter compromise



(2) 4-3302

2 1.8K
2-10K
2-1502
5-.01uF.
*1-100
*1-560.

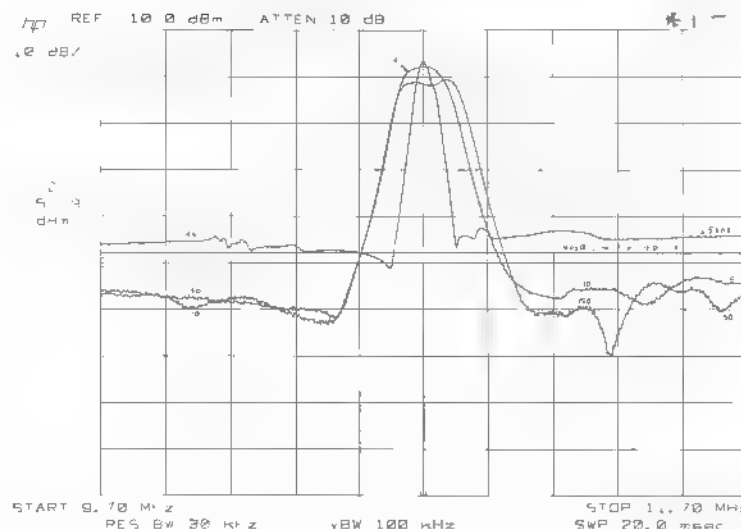
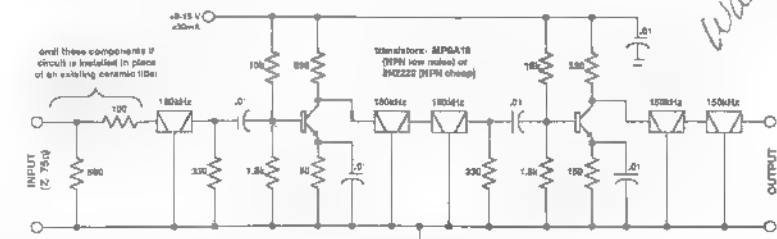


FIGURE 2 Plot of frequency response of three Murata-Erie ceramic filters (actual test data)



Circuit diagram for super-duper IF amplifier using five filters for high selectivity

T M MEYER
6336 Hickory Ave. Acad #44
Le Jumb a PL 4 D44

PHOTO NEWS

NOVEMBER 1990

Mailing Address:

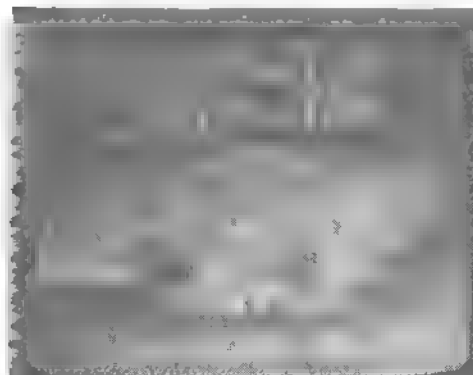
JOEL L. ROSENBERG

17284 Nice Rd - Akron NY 14001 9529

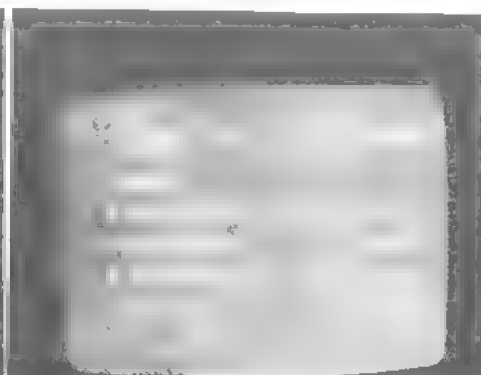
Photos submitted to PHOTO-NEWS become
the property of the column and will not
be returned

JOEL L. ROSENBERG
Southampton

Our first items are local reception of commercial TV on Okinawa. They were sent in by Mike Hardester stationed at the time on Okinawa. Equipment is a Pioneer TV North American channel system "M" receiving Japanese channel system "M". The systems are compatible from S channel, D thru UHF channels. Antenna, rabbit ears.



JOOF-J8
seen on US channel 11
Naha, Okinawa
RP 5kw v sub - 1.2kw aural



JORR-J10
seen on US channel 12
Naha, Okinawa
RP 5kw visual - 1.2kw aural

Next is Joel Rosenberg - Richmond Hill, Ontario 17 miles north of Toronto. Equipment: Dell 1047 VHF antenna, Harne Master 8 bay bowtie CLE AK 27, rotator atop a 18 foot tower. Used on 1412 coax for HF and KC-59 coax for VHF.



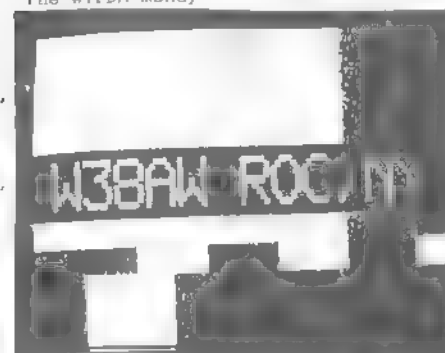
KUSD-2
Vermillion, South Dakota
890 mile 1 skip
seen May 27, 1990
at 2000 EDT

PHOTO NEWS

NOVEMBER 1990 page 2

PHOTO-NEWS is the property of the column and will not be returned. Do not return.

Joel was kind enough to send in high quality photocopies of his DX photos. If the PHOTO-NEWS column contributors have no objection, photocopying could save the WTFDA money.



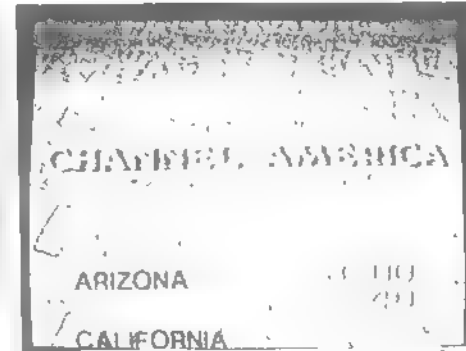
W3BAW
Rochester, New York
110 mile tropo
seen May 28, 1990
at 2226 EDT



KBTX-3
Bryan, Texas
1435 mile E skip
seen May 29, 1990
at 2000 EDT



CBI N4-45
Wingham, Ontario
90 mile tropo
seen June 15, 1990
at 2130 EDT



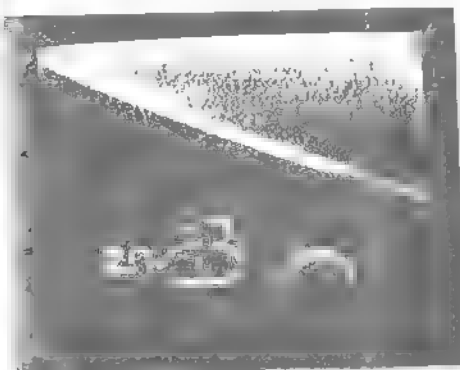
W40AG
Rochester, New York
110 mile tropo
seen June 16, 1990
at 2000 EDT

PHOTO NEWS

NOVEMBER 1990 page 3

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LD 60 BY
David J. Nilsen

Joel's foto of ZNS Nassau was taken while on vacation their.



ZNS-13
Nassau, Bahamas
local signal
seen July 14, 1990



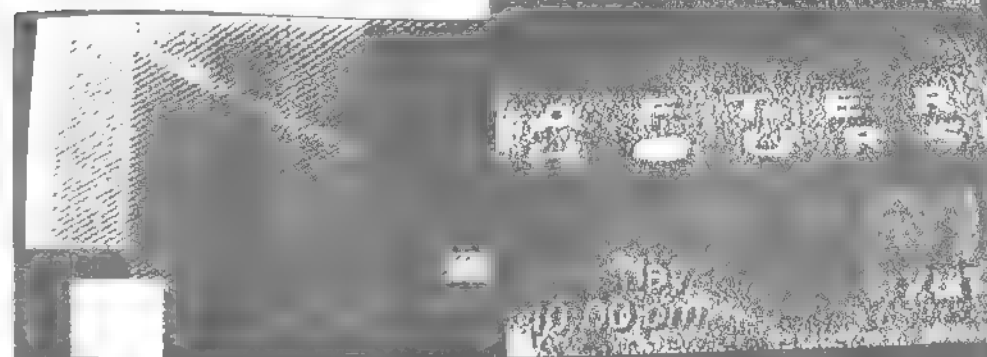
CICO24-24
Ottawa, ON - Hull, PQ
215 mile tropo
seen July 19, 1990
at 0751 EDT

PHOTO NEWS

NOVEMBER 1990 page 4

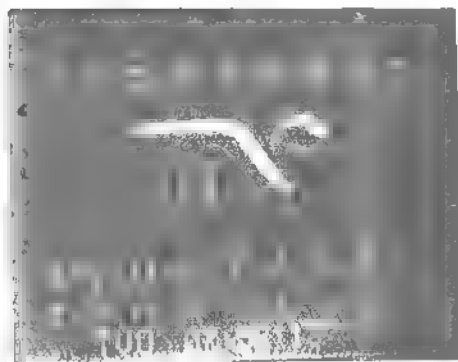
Photos submitted to PHOTO-NEWS become the property of this column and will not be returned.
EDITED BY
David J. Nilsen

Joel, do you use any preamp with your 8 bay bowtie? too much trouble with the locals

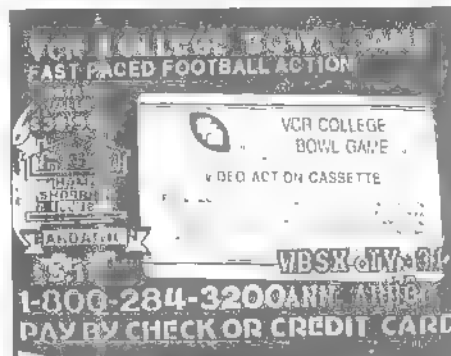


WJRT-12
Flint, Michigan
225 mile tropo
August 29, 1990
at 0440 EDT

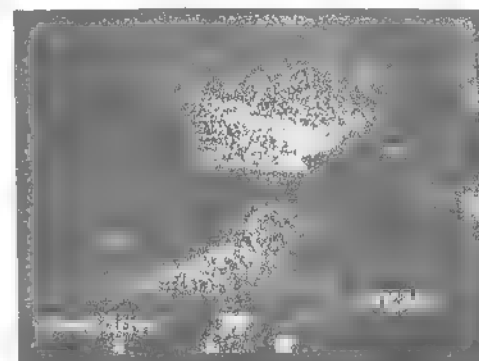
WXMT-30
Nashville, Tennessee
560 mile tropo
seen September 4, 1990
at 0800 EDT



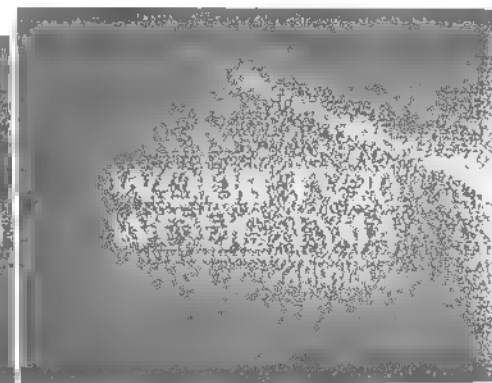
CICO95-42
McArthur Mills, Ontario
110 mile tropo
seen July 19, 1990
at 0752 EDT



WBSX-31
Ann Arbor, Michigan
230 mile tropo
seen September 3, 1990
at 1901 EDT



WKAR-23
FAST Lansing, Michigan
265 mile tropo
seen September 4, 1990
at 0900 EDT



WOLIC 44
Cambridge, Ohio
285 mile tropo
seen September 4, 1990
at 2100 EDT

More from Joel next month +, Jeff Kadet - IL, Joe Fela - NJ & me

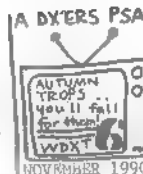
Till next time. DAVE

NWS NEWS

NOVEMBER 1990

IN THIS ISSUE:

More Weatheradio Canada expansions take place in Quebec
Some DX from north of the border
Some DX from south of the border
...and much more!



Matt Sittel
PO Box 21421
501C Wood Hall, N.C.
Raleigh, NC 27607
919 876-1370
best times evenings
before 10PM.
Deadline: 12/1/90
for 1/91 column

well, it looks like this will be a short column. The 2 reporters this month both hail from our neighbor to the north, Canada. Let's get to them right now.

William R. Hepburn, 1211-1547 Mississauga Vly. Mississauga, ON L5A 3X8 Canada

Equipment: Realistic PRO-2004 scanner, 12th floor balcony vertical dipoles

JULY 1990

21 tr 0744 XLT-839 162.475 ON Goderich 105
(WXP-Canada u, XMJ225)

Comments: XLT-839 was rather unintelligible under local XMJ-225. Best reception was actually made when off-airing to 162.460 Mhz (!!!-mcs) Forecast for Huron and Perth counties, etc. AFG-2 (aka KMTC) was state #4 as far as AIR stations go. Continuous best of Selfridge weather and ATC info. see-u, Bill

Charles Gauthier, 3260 Beaulieu, Brossard, PQ J4Z 2P7 Canada

(Ed. Note: Charles mentions that he sent me a letter in July with this information, but that letter never reached me. His 2nd attempt was successful, though Read on...)

It seems my last letter got lost in the mail. I hope this one reaches you! Anyway, my July letter contained information about the expansion of Weather Radio Canada. Five new stations replaced, this summer, the answering machine service and they concentrate mostly on the agricultural forecast. Here's the list

City	frequency	transmitter site
Sherbrooke	162.475	unknown
Trois-Rivieres	162.400	Trois-Rivieres 46°25'N, 72°40'W
Saint-Jeory	162.400	Mount Ste. Margareite 46°20'N 71° 8' W
Riviere-du-Loup	162.475	Mount Grands-Fonds 47°46'N 70°10'W
Chicoutimi	162.550	Mount Vallin 48°37'N 70°48'W
Montreal	162.550	Mont Royal 45°31'N 73°36'W
Quebec City	162.550	Mont Belair 46°48'N 71°3' W
Sept-Isles	162.550	Pointe Noire 50°09'N 66°29'W

NWS DX REPORT

JULY 1990

26 tr 0000-0100

WRC 162.475 Sherbrooke, PQ 60 mi.
WRC 162.400 Trois-Rivieres, PQ 75 mi. (over KIG-60)
VFN 161.775 Trois-Rivieres, PQ 75 mi.
VFN 161.850 Sorel, PQ 43 mi.
VDQ 161.775 Cornwall, ON 67 mi.

Equipment: Realistic PRO 2002
rabbit ears

Matt Sittel, NWS News Editor

AUGUST 1990

19 tr 0850 unID 162.400
20 tr 0730 WXL42 162.400 NC Winston-Salem 88
21 tr 0758 WXL42 162.400 NC Winston-Salem 88
22 tr 0737 KEC95 162.400 SC Myrtle Beach 123
23 tr 0737 WXL42 162.400 NC Winston-Salem 88
24 tr 0738 KHB31 162.550 NC Wilmington 116
25 tr 0741 KIG77 162.475 NC Cape Hatteras 187
26 tr 1823 WXL42 162.400 NC Winston-Salem 88
27 tr 0759 WXL42 162.400 NC Winston-Salem 88
28 tr 0800 WKK65 162.475 VA Richmond 142

SEPTEMBER 1990

01 tr 0727 WKK65 162.475 VA Richmond 142
02 tr 0732 KEC83 162.400 MD Baltimore 272
03 tr 0920 WXL42 162.400 NC Winston-Salem 88
04 tr 0848 KEC95 162.400 SC Myrtle Beach 123
05 tr 0848 WXL59 162.475 NC Rocky Mount 66
06 tr 0848 KHB31 162.550 NC Wilmington 116
07 tr 0722 WXL42 162.400 NC Winston-Salem 88
08 tr 0725 KHB31 162.550 NC Wilmington 116
09 tr 0823 WXL59 162.475 NC Rocky Mount 66

SEPTEMBER 1990

07 tr 0825 WXM57 162.400 VA Heathsville 195
11 tr 0801 KIG77 162.4 5 NC Cape Hatteras 187
12 tr 0748 KEC95 162.400 SC Myrtle Beach 123
13 tr 0749 WXL59 162.475 NC Rocky Mount 66
14 tr 0749 KHB31 162.550 NC Wilmington 116
15 tr 0813 WXL59 162.475 NC Rocky Mount 66
16 tr 1005 WXL42 162.400 NC Winston-Salem 88
17 tr 1005 WXL59 162.475 NC Rocky Mount 66
18 tr 0802 WXL59 162.475 NC Rocky Mount 66
19 tr 0810 WXL42 162.400 NC Winston-Salem 88
20 tr 0813 WXL42 162.400 NC Winston-Salem 88
21 tr 0813 WXM57 162.400 VA Heathsville 195
22 tr 0815 WKK65 162.475 VA Richmond 142
23 tr 0847 KHB31 162.550 NC Wilmington 116
24 tr 0847 WXL59 162.475 NC Rocky Mount 66
25 tr 2136 WXM57 162.400 VA Heathsville 195
26 tr 2223 WXL59 162.475 NC Rocky Mount 66

...SUPPORT NWS NEWS!!! 73s, Matt

EASTERN TV-DX

Bill Mienajadly
PO Box 2999
Clifton NJ
07015-2999
201-478-3044 no collect
calls take!

November 1990

Cutoff 9-1 90

Deadline 12-5-90

KY J4F Reaches the East Coast. Joe Fela logged WLEX-18-KV at 566 miles along with WDRB (IN) at 636 mi over rough path mountainous terrain to Central NJ. Joel Rosenberg logs WXMT-TN at 657 miles from ONT. William Hepburn WKZT-KY at 525 miles. Some one from Clifton NJ sees 507 mile tropo to NC. John Combs moves to Tallahassee and sees 901 mile Gulf tropo...with just a 4 bay antenna with amp! Does it get better?...Christopher Dunne saw E-skip to Central America on Sept 27. Is this what they call a "good season". YES!
Note: If anyone has sent a report to this column and it didn't appear, its likely I did not receive it or maybe I might have misplaced it if so; Let me know if a report you sent is not in this column-BN

Saul Chernos PO Box 6 . Drilling ONT L3V6K5 {705} 327-7809

From Drilling

27 TR 2301 WSNR 43 NY 175
28 TR 0625 Akron/Canton U's
29 TR 0900 WDSL 34 OH 325
30 TR 2300 W64A OH 175

August 1990

3 TR 0815 CB-- 33 ON CBC
OTTAWA (How about CBOT-MAC
ARTHUR MILLS-BN)
0817 CIG- 42 ON TVO
MAC Arthur Mills BN

August 1990

3 TR 0830 WNPB 16 NY
21 ES 2330 UNID 4
(FM DX TO MN
"KX-4" NX ment MN

From Burnt River

27 TR 2301 WSNR 43 NY 175
28 TR 0625 Akron/Canton U's
29 TR 0900 WDSL 34 OH 325
30 TR 2300 W64A OH 175

SEPTEMBER 1990

5 TR 2313 WWTW 9 MI

SEPTEMBER 1990

6 TR WOIO 19 OH

A very busy summer & not much time to DX. Most effort on FM. May have got into WI on Sept 5/6 on TV ch 10.

J.J. Rosenberg 19 Glenayr Rd Richmond Hill ONT L4B 2W3 (416) 884-8454

JULY 1990

22 ES 2015 MUF 2
27 TR 2301 WSNR 43 NY 175
28 TR 0625 Akron/Canton U's
29 TR 0900 WDSL 34 OH 325
30 TR 2300 W64A OH 175

AUGUST 1990

17 ES 2130 PBS 2
12 ES 2 30 MUF 2
13 ES 1800 MUF 2
4 ES 2200 MUF 2
26 TR 0845 WGET 48 OH 420

PBS 15
UNID 32 Religion
UNID 36 Relig-(Note#1)
29 TR 0425 WLPW 36 OH 250
W010 19 OH 200
WEYI 25 MI 225
WMSH 66 MI 225
WJRT 12 MI 225
0745 WGET 30 OH 250
2300 WADL 38 MI 200, Note#2)

About mid summer, early morn & eve. tropo seemed to shift emphasis from Rochester, Syracuse-Ltica to Youngstown....
Cleveland-Akron Detroit not in as often as other years.

Note#1 Aug 26 opening never picked up enough to make other ID's or tentative guesses.

Note#2 Finally logged WADL-comes in much weaker than other Detroit U's. when visiting Detroit in May 89 they seemed to be as strong as the others.

Note#3 During eve of Sept 4, band was loaded. Not ID'd were several KY ETV's also WTAP-15 last logged in 1972, WHIZ-18 -1971, Portsmouth OH-never logged. A memorable opening nevertheless. 1st TN logged via/Tr on Sept 4 (AM/PM) since WICI-45 in Sept 1972! (Nice going with your TN DX BN) 73s Joel

Eastern TV Dx November 1990

Robert S. Ross VE3JFC Box 4373 STN C London ONT CANADA N5W 5J2

Equipment: Toshiba Portable FM Beam-YHF Flying Arrow-JHF

AUGUST 1990

31 TR 2050 WFWA 39 IN

SEPTEMBER 1990

1 TR 0326 WHEC 10 NY

3 TR 2000 WNEP 16 PA

2010 WYOU 22 PA

3 TR 2020 WYIA 44 PA

2017 WO-F 38 PA

2026 WBRE 28 PA

2144 WKBS 47 PA

2250 WENY 36 NY

3 TR 2316 WETM 18 NY

over TVO London!

4 TR 0510 WPNB 7 MI

0515 WWTW 9 MI

0525 CKCK 11 ON

0550 CBCE 16 ON

Joseph Fela -150 Robert Place - South Plainfield, N.J. - 07080

Equipment: G.E. monitor, Antennacraft P-7 dish @ 35 ft., Winegard PA-4975 amp, rotor

September 1990

3 Tr 0046 W59AA 59 CT 89

(West Haven WVT-30)

0059 WGB 49 PA 124

0109 WITAC 17 NY 22

(New York WPIX-11)

(WPHL off)

4 Tr 0700 WTSY 54 NY 82

0735 CBFT 25 ON

(See Note #1)

1800 WHAI 43 CT 76

(See Note #2)

2000 CICA 19 ON 329

T, Ontario

5 Tr 0000 WCEJ 48 OH 545

0100 WNC 45 OH 350

0110 WJTD 19 OH 376

0108 WAKC 23 OH 372

0114 WYTV 33 OH 327

5 Tr 0130 WNE 31 VT 240

0146 WXTX 19 KY 544

0201 WJET 24 PA 321

0229 WLEX 18 KY 566

0253 WHAG 25 MD 185

0255 Home Shopping

on 28 and 30

(See Note #3)

0259 WKEF 22 OH 519

(See Note #4)

0300 WDRB 41 (IN) 636

(WXTV-41 off)

0303 WKBN 27 OH 327

6 Tr 2034 WUTR 20 NY 180

2300 WETK 33 VT 276

8 Tr 0930 WETM 18 NY 162

9 Tr 1000 WWSH 66 MA 192

9 Tr 1300 Harrisburg area

strong (15, 21 o/WLW

27, 33, and 43)

1320 W3BAN 38 PA 177

(Chambersburg WITF-33)

1325 WLXVt 65 MD

(See Note #5)

12 Tr 0102 WWPB 31 MD 185

2330 WBBE 36 RI 179

13 Tr Local WHSE-68 off

from about 0000-0030

leaving weak signals

to the NE (WQTV?)

and NW (WSTY?)

0013 WCVX 58 MA 227

(WVJB-58 Off)

0035 Boston 25-38-56

Note #1. An unusual bar pattern noted around 0715. Programming started, apparently, around 0730. Man and woman with a morning show, in French, with spots in French

Note #2. WHAI noted running some spots. In the middle of one, they went to a slide announcing their sign-off (at 6 p.m.) and pulled their carrier seconds later.

Note #3. About the Home Shopping Club noted, 28 was not WBRE and 30 was not WVT. In view of the area coming in, OH, KY, or ??? seem possible. Anyone with any ideas?

Note #4. Time approximate as I failed to write it down but a positive ID was caught. Unusual programming at time: continuous used car ads!

Note #5. This over WWSH-65. Cumberland ad noted, then into a taped football game (looked like a high school game taped a previous evening - cable quality coverage).

As for the lack of VHF DX, I plan to only DX UHF. As I am in the New York Metro area, 22 miles from Manhattan (not to mention 58 miles from Philadelphia), there aren't too many DX possibilities on VHF. But it is interesting to see what is possible on UHF. As Washington, Baltimore, Annapolis, Salisbury, Hartford (+ WGBB-40), Northeast and Central PA, and Binghamton are all very common, I will not bother listing them except for unusually good receptions. Even then I may not.

For those looking for WYBE-35, they are on nightly from about 1900-2300 and that's it. I don't understand the existence of this station. They were off for about 10 days around the beginning of September. I'm told that was due to a lightning strike.

73, Joe

John F Combs PO BOX 7581 Tallahassee FL 32314 904-878-6317 NEW ADDRESS & PHONE
(Ed: John called me and wrote to me and mentioned he had just moved to Tallahassee FL after being offered a promotion in his job, he saw with a 4 bay and 4990 amp; Trans guif tropo CH 23 Brownsville TX @ 875 mi & CH 9 Pensola MI (ECO) at 901 miles! John, congratulations on your promotion! We all look forward to hearing more on your super DX-BN

Eastern TV Dx

November 1990

Jeff Wolf 1131 University Blvd W, Apt 701 Silver Spring MD 20902

August 1990

29 TR 0039 WPTF 28 NC 251

WKFT 40 NC 265

WYED 17 NC 248

30 TR 0726 WRDG 16 NC 251

WYED-17, NC-28-40

September 1990

1 Tr 0209 WYED-17, WPTF-28

0229 WPOE 15 SC 349

0230 WKFT 40 NC 265

0232 WPTF 28-cc1

0301 WCTI 12 NC 269

3/4 CB-ID 00557

0306 W34AX NC 202

Channel America

WAX-TV 34 Henderson"

0308 WBTW 13 SC 349

gd to vgd over

WJZ, ID at 0345

0343 WRDG 16 NC 251

ID 3/4 CB

WTAT 24 SC t

cc1 WWSW

0345 WPTF 28 NC s/f

GW 0352 WMPY testing

TR 0405 UNID 7.9 lcl's off

0535 WPTF lcl qual

0541 WFXI 8 NC 289

ID 3/4 CB

WGL 8 PA

8 ccl

0545 WECT 6 NC t

0546 SC 15 3/4 CB

0557 WCTI 12 NC 269

VA 12 s/on ID 3/4 CB

0558 WGL 8 PA-s/on

WFXI- 8.8-WRIC

VA 8 CB- P

0559 WRIC 8 ID CB

local quality

1 TR 0559 UNID 8 z CC1

GW 0600 WUSA 9 on

TR 0603 WFLA 22 NC 251

0614 WJKA 26 NC 344

0633 SC, NC 25 t

0636 WJWP 36 NC 195

0637 WUNJ 39 NC 344

0710 WGLT 61 NC t

WGGT 48 NC 256

o/W48AW

WJMM 19 NC

0729 WJPM 33 SC 358

WRLK 36 SC 409

NC 11 vgd

0733 WITN 7 WNCY-9

cc1 o/locals

0738 WRAL 5 NC t

cc1 o/WJTG

0750 SC 15 good to

very good

0753+WCCB 18 NC 332

WIS 10 SC t

0800 SC 2,19,23 t

0815 WUNC 4 NC t

cc1 o/WRC

0817 WJZY 46 NC 339

0821 WRJA 27 SC

0827 WNSC 30 SC 369

0829 ID, 30+cc1

0832 WNCN 36 NC 332

0928 WTAT 24 SC 430

o/WHSW

0934 WRLH 35 VA-cc1

1100 fade outs

2 TR 2311 WNEO 45 OH t

3 TR 0135 WKBN 27 OH t

WTTT-28t, WTV 33t

4 TR 2325 WYED 17 NC 248

5 TR 0002 WAKR 23 OH 279

0020 WQEX 16 PA

5 TR 0200 WYFE 28 OH 319

0225 WKFT 40 NC 265

0035 WKBN 27 OH 238

0318 WCB 2 NY 196

(my local HI-BN)

UNID 2z

WMAZ off

0647 WBOC 16 MD-cc1

0720 WYED 17 ccl-2

NC 28-40

1807 WJXS 17 FL t

over WYED

1820 WKFT 40 NC 265

1835 WAW 30 FL t

1940 WDLI 17 OH t

2320 WPTF 28 NC 251

6 TR 0706 OHIO 22,33t

WNEO 45 OH

7 TR 0635 NC-11-28-39-40

0755 WNUJ 47 (NY) t

(Jeff call me I'll confirm

if it is them-BN)

8 TR 1951 WQEX 16 PA 40

WLAB 43 OH t

11 TR 0650 WYED & WPTF

12 TR 0639 WLAB 43 OH t

WKFT 40 NC 265

14 TR 0130 WNEO 45 OH t

18 TR 2231 WQEX 16 PA

21 TR 1800 WJWJ 16 SC t

WYED 17 NC 248

1805 WTAT 24 SC t

1812 WJXS 17 FL t

1939 WDLI 17 OH t

2000 WAKR 23 OH 278

2347 WNUJ-16t, WJXS-17t

22 TR 0037 WPOE 15 SC t

0156 Fade outs

1440 WYED 17 NC 248

1915+WYED 17 NC 248

That dude from Jolisey (Da Editor) P.U. BOCKS 2999 Clifton Nue Jerrzey 070000015 (zap cord)
(sorry...I couldn't resist-Heh!)

Sept TR-The last 4 days had DX mainly to MD. Late nite/Early morn had WBOC-16,22,28,45 and even WMDT-47 MD w/lcl off, added WFAZ-69-PA on 13 w/lcl 68 off. OK avg tropo.

October 1990

4 TR 0000 Front approaching and High Pressure still in area. Per Joe Fela tip, lcl 68 off temp, to the NW UNID 68 likely WSTF 68 Syracuse in out with WWSW 61, c 68 back x @ 0000W 24 Symg, York 43, WDC-19-MA-s/f, WNE-31 r7 nea, good, JFF Albany 23 Tired went to ZZZZ.

6 TR 0540 DELMARVA, NORFOLK VA Areas, WENT-27-VA-307, WUNJ-39-NC-507 (farthest JHF DX to date) ID w/3/4 CB & WJZ 1720 WWSW 61 A 245, WYVZ-13-VA-307, WET 27,28t, WJZ 4000 6 MI-s f, All gone by mid morn TR 0610+ Jolisey 25,38,55,66, C 26, Spr 40 ALL LOCAL QUALITY & c f 101+ JND 501 c off) to the NE with a classical music prg. NOT 50 DC with the same direction as Boston I think it could be Derry NH. Were they on the air? Did they run a classical music prg? they were gone in 10 minutes 2200+ WJZ 4000 Harrisburg, York, Allen town PA U's all Local & bleeding over! WHP-21-PA SOLID over lcl WJW

9 TR 2300+ DELMARVA, NORFOLK VA-300 mi+ Not as good as the opening on the 6th. PM was better. Gone in 2 hrs.

Comments: Norfolk VA did not seem common here this past season on trop, so the Oct 6th opening was very welcome and of course WJWJ-39-NC at 507 miles. Considering how far out that was I still have hope of perhaps seeing South Carolina (or gasp!) Florida. One can only hope. The NJ DX-ers in the Central part of the state seem to get out better to the South and Southwest than I do, but here in Clifton (NE New Jersey) I get out better to the North & North East (Albany, NY, Adams MA & Boston). For example Joe Fela gets Hagerstown MD on trop, I have never seen Hagerstown here...not a trace. I have seen WJZ Albany NY countless times. Joe has not even seen a sync bar out of them! It is really amazing how only some 30 miles can make a Major difference! Hopefully trop will continue-BN

WESTERN TV-DX

November 1990

New _____ New Mode _____ Tent. _____ t _____ Unidentified - unid _____ S/Dn - + _____ S/off - _____
 10 Color Bars _____ Unid Color Bars - % _____ Misc. Test Patterns - & _____
 Parallel Programming - // _____ MTS Stereo - \$ _____

BN Baja California Norte CH Chihuahua CL Coahuila NL Nuevo Leon
 ZA Zacatecas

William Draab, Ellis St., Rt. #2, Kewaunee WI 54216 (414-388-2350) CDT

Equipment

7' Finco dish, B-T CMA-Ub preamp @ 93', .750 cable. Stacked Finco high band yagis @ 100' with RG/11 cable. Second tower, 40', with Winegard CH-2028 (io-band) yag. Zenith 14N22 table model 23' b&w (1971) with B-T BTU-2a UHF converter (used for UHF and also the stacked hi-band yag's) and Zenith 16J20 19" b&w (early 80's) (used with antennas on 40' tower). Panasonic 9' b&w portable.

August 1990				September 1990				
25 tr 0556	WEIU	51 IL	345	27 tr 1916	WCCO	4 MN	280	
0620	WDKY	56 KY	480		(Snow free)			
	WAFF	48 AL	685		(Twin City U's			
0633	WSEE	35 PA	405		so-so)			
1359	WCET	48 OH	400	29 tr 1830	W43AV	43 WI	10-	
	WIII	64 OH	400		(Waukesha			
	WKIX	19(OH)	400		LPTV-CHA,			
	WCVT	54 KY		30 tr 0700	WCET	48 OH	400	
	WPBO	42 OH	461		WIII	64 OH	400	
	WOSU	34 OH	395		WKON	52 KY	437	
1408	WNEO	45 OH	405		WDRB	41(IN)	437	
2100	K58CM	58 MN	275	31 tr 0600	W30AL	30 IL	199	
(Duluth	"B4				(Piano			
	KSAX	42 MN	374		LPTV-CHA)			
	(Snow free)				Cincy UHF's			
	Twin City U wear				W45AJ	45 IL	165	
	W57AR	57 WI	45		(Rockford			
	(Sawyer	WSAW- 7)			LPTV-CHA			
2155	KANBC	22 MN			33, 62, 68 also			
2207	Twin City U good				in snow free			
26 tr 1808	WTWQ	36 KY	473	1830	KSPR	33 MO	589	
	WKLE	46 AL			KDFB	27 MO	589	
	WCET	48 OH	400		KOKZ	21 MO	589	
	WKON	52 KY	437		KMI2	17 MO	470	
	WDRB	41(IN)	430		KSNF	16 MO	630	
1835	WYMT	57 KY	550		WHSI	46 MO	432	
	WSBN	47 VA	587		(Snow free)			
1838	WMSY	52 VA	612		K52AY	52 MO		
	WKSQ	29 KY			KONL	30 MO	432	
	WKIX	19(OH)	400		W58DHL	58 MO		
	WEHT	39 TN			2129	WNEO	45 OH	405
	WIII	64 OH	400		2208	KFVS	12 MO	512
	WTTT	28 OH						
2050	WPSO	42 OH						
27 tr 1823	WOSU	34 OH	395					
	WTTT	28 OH						
	WDRB	34 KY	515					
	WTVQ	36 KY						
	WKON	52 KY	437					
	WCET	48 OH	400					
1825	WMSY	52 VA	612					
	WIII	64 OH	400					
	WDRB	41(IN)	437					
1912	WPBO	42 OH	461					
	WKIX	19 OH	400					
1916	WYMT	57 KY	550					

Fred McCormack
 Box 9077
 Prairiewood Station
 Fargo, ND 58106-9077

Deadline: 12-06 90
 Cut-off: 09-01 90

Western TV DX

November 1990

3 tr 1915	WBNX	55 OH	380	7 tr 1737	WPBO	42 OH	461	20 tr 2008	WXMt	30 TN	
	CBFT17	68 OH	270	11 tr 2208	W54AF	54 OH	340		WUSI	16 IL	402
2051	CBLN2	34 OH	270		(Bucyrus		LPTV)		WFIE	14(KY)	420
2055	WYMT	57 KY	550		WQAC	67 OH	395	2017	WEIL	51 IL	345
	WIII	64 OH	400		WSFJ	51 OH	395		WFLI	53(GA)	670
	WKWJ	68 KY	437		WOSU	34 OH	395	2023	WTCI	45 TN	650
	WDKY	56 KY	480		WPGH	53 PA	480		WDSI	61 TN	650
	WEHT	39 TN			WGGN	52 OH	315	2028	WJSU	40 AL	
	WGRB	34 KY	515		WPTT	22 PA			WKDY	56 KY	480
	WKSQ	29 KY	538		WQXT	16 PA			WKWJ	68(IN)	437
2115	WKON	52 KY	437		WQUC	44 OH	427	2048	WKON	52 KY	437
	WKPC	15(IN)	430		WEAO	49 OH	380		WNAI	44 AL	
5 tr 1739	Erle	24, 35, 54		2234	WKBST	47 PA			WHIT	25 AL	
	(Snow free)				KSAX	42 MN	374		WGRB	34 KY	515
	Most lower ON				KRWF	43 MN	395		WKSQ	29 KY	538
	U's booming in				(Snow free,			2055	WEHT	25(KY)	420
	WEHT	66 PA			Twin Cities V's				WHIT	25 AL	
	Kitchener	56, 61			and U's good				WCTE	22 TN	587
	London	18, 40, 53		12 tr 0530	WQLN	54 PA	405	2059	WCLP	18 GA	685
	WNYB	49 NY			WSEE	35 PA	405		(A- 'Chatsworth-		
	Sarnia	34 and 68			WCTI	27 ON	458		Dalton")		
	CBLN4	45 OH	310		(Briefly)				WKPC	16(IN)	437
	WNEO	45 OH	405	0548	WPCB	40 PA		2122	WKLE	46 KY	
2011	CFMT	47 ON	410		Plus lots of the			2130	WAAV	31 AL	
	CIH41	41 ON	410		same as 09/11				WBNB	47 VA	
	WNEO	17 NY	445	15 tr 0649	WUSI	16 IL	402	2141	WNTT	28 TN	
	CBCE	16 ON	270		WEIL	51 IL	345		WLEA	18 KY	473
	W5AAK	64 OH	385	20 tr 2003	WAFF	48 AL	685	2202	WKHA	35 KY	554
	Conneaut	WVIZ	25)		WDX	54 AL	685		WEHT	39 TN	613
	Youngstown	21, 27			WQVB	53 KY	553	2210	WYMT	57 KY	554
	and 33				WEVV	44(KY)	420	21 tr 0515	WKHA	35 KY	554
	CICA51	51 ON	615		WBMG	42 AL			WKPT	19 TN	820
2130	CITY	57 ON	410	2008	WDRB	41(IN)	437		WTVQ	36 KY	473
2223	W58AM	58 OH	420		(Still indie)			0630	WCET	48 OH	400
	(Youngstown	WNEO-45)			WTVQ	36 KY	473	1827	WDRB	41(IN)	437
7 tr 1737	WDRB	41(IN)	437		WTVQ	36 KY	473				

I noticed W45AJ, Rockford IL, snow free with Channe America programming as was W43AV, Waukesha WI. Some of the commercials on the two stations were different though at the same time, probably locally originated.

After considerable thought, I've concluded that my logging of KNBC 4 on May 28th was only tentative. I didn't see enough information to be more conclusive.

Doug Allen, P.O. Box 5846, Woodland Park CO 80866 (W2CRS) (719-687-3549) CDT

Equipment

1981 11" black and white Magnavox or 1977 11" black & white Panasonic, with a Channel Master 1110 @ 35' with a Channel Master 0095 preamplifier and HAM M rotor. On UHF - Antennacraft Y44G up 40' and a Radio Shack 15-1115 UHF preamplifier.

September 1990

11 tr 0410	KNTV 3 NE	18 tr 0736	KRNET 12 NE no	20 tr 0801	KPHet 9 NE
	(CNN News - KTVS	20 tr 0710	KSXK 3 KS 230		(PBS - occ. over
	off air)		(Stronger than		ruled KUSA,
0422	KSXK 8(KS) 240		semi-local KTVS)	27 gw 0359	K06-- 8 CO
0500	KUPK 13 KS 255		(Strong)		Unknown nw KCNC 41
	(Local KRDO off)	0712	KNCHT 12 KS	0400	K06-- 6 CO
	KSNG 11 KS 240	0730	KUPK 13 KS 255		(Unknown sw KUSA- 9)
	(Local KKTv off)		(o/ local KRDO)	0402	K13-- 13 CO
0730	KSTF 10 NE 220		KSNG 11 KS 240		(Unknown nw KUSA- 9)
16 tr 0242	KSTF 10 NE 220		(o/ local KKTv)	October 1990	
0250	KAYst 7 KS	0800	K00dt 9 KS	1 tr 0148	WIBWt 13 KS
18 tr 0730	KSTF 10 NE 220		(CCI on KUSA)		(local KRDO off)
				0205	und ch 5 ne CN

Some strong openings up to 300 miles, but little beyond that since the antennas went up on the tower. I noted Topeka, Lincoln and Kansas City weakly on FM briefly on October 1st when tentative WIBW-13 was observed. My VHF TV system now compares

Doug Allen (continued), favorably with my FM system, but channels 3, 6, 8, 10, and 12 are normally the only open ones here as the others are most y no silent period. My Radio Shack JHF preampifier is over loading, giving me images on so many channels that I haven't tried to sort things out there.

Doug, I think your channel 6 with KCNC 4 and channel 13 with KUSA-9 may be KQSDA and K13FN, respectively, at Alma and some 59 miles from your QTH. I think your channel 6 with KUSA 9 may be KQSHF serving Buena Vista and Salda 52 miles from your QTH. The Alma translators are about 3.8 miles north northeast of Alma at around 12000 as. The power is stated at 21 watts ERP. The Buena Vista 52 miles translators are located on the eastern slope of Mount Princeton at about 10500 as. The power is stated at 14 watts ERP. You might want to check your topo maps for path obstructions (fm).

Frank Merrill, P.O. Box 669, Macomb IL 61455 (309-833-2661) CDT

Equipment: See October 1990 Western TV-DX

July 1990	3 Es 1729	KKTO 2 NM 920	8 Es 1700	WUFT 5 FL 875
1 tr 2214 KSNB 4 ME 385	tr 2100 most WI 1's		1715 WSAV 1 GA 775	
2 tr 0007 KUSD 2 SD 409	2306 K40CC 40 IA 270		1800 WPBT 2 FL 1165	
KYNE 26 NE 286	(Storm Lake KMEG-14)		1930 WWAY 3 NC 810	
(Rare)	4 tr 0540 WCML 14 MI 370		2000 WKRG 5 AL 690	
KSIN 27 IA 328	KMEG 14 IA 325		KGMN 5 WY 750	
0040 WLEF 36 WI 379	0600 out to 400 miles		2128 WFSB 3 CT 930	
0146 KCAJ 9 IA 321	all directions		9 Es 0046 CKCK 2 SN 460	
W43AG 43 KY 295	except south		1700 KTVK 3 AZ 1275	
(Hopkinsville) LPTV	Es 1928 KDTN 2 TX 646		2102 KVBC 3 NV 1350	
WEHT 39 TN 526	1929 KDFW 4 TX 648		2104 KMID 2 TX 865	
WFLI 53 TN 490	6 tr 0635 WKPC 15 (IN) 294		2128 KIDY 6 TX 825	
WDSI 61 TN 465	Es 0814 WWAY 3 NC 810		2132 KMOL 4 TX 885	
0400 W36AK 36 TN 367	0834 WGBD 2 SC 795		KACB 3 TX 825	
Nashville TBN	1859 WKTV 2 NY 825		2200 KIII 3 TX 970	
C529 WKAB 9 SD 488	1954 WHAR 2 MD 745		2215 KGBT 4 TX 1070	
0543 KDCB 1 SD 470	2000 WRG 4 DC 726		2314 XEPN 2 CH 1070	
(CCI only)	Previous by ms		11 Es 1230 KNAZ 2 AZ 200	
1820 WBSN 47 VA 496	tr 2040 WEHT 39 TN 526		KKTO 2 NM 920	
1915 WWTQ 9 MI 370	WKPT 19 TN 535		1330 KENW 3 NM 860	
1958 WGTQ 8 MI 506	(CCI only)		KAMR 4 TX 705	
2000 WWLP 10 MI 507	Es 2119 WWAY 3 NC 810		1339 KQBC 4 TX 1065	
2100 W6RAV 69 MI 412	7 tr 0235 WKMG 11 TN 836		1400 KTVK 3 AZ 1275	
ve and WCHV-27	(All night bars)		XHPN 3 CO 985	
2151 WSCO 14 WI 330	Q455 WEHT 39 TN 526		1617 KCCZ 4 UT 1218	
WHRM 20 WI 310	WLOS 13 NC 552		1712 KPRC 2 TX 800	
WHWC 28 WI 320	(CCI only)		KACB 3 TX 820	
WLEF 36 WI 380	nothing else		1713 KWAB 4 TX 825	
WPNE 38 WI 305	Es 1218 KTVK 4 FL 1165		(Rare)	
WBAY 2 WI 305	1300 WPBT 2 FL 1165		KMID 2 TX 865	
(Rare)	WESH 2 FL 955		KFDX 3 TX 528	
WFRV 5 WI 303	1336 XEJ 5 CH 1070		XEPN 2 CH 1070	
WUPW 12 WI 365	1344 KGBT 4 TX 1070		KENW 3 NM 860	
WCUK 11 WI 305	1356 KRGV 5 TX 1070		KQBC 4 TX 1065	
2315 CICO 19 ON 633	1400 WJXT 4 FL 870		(See Note # 3)	
(Under WHOI-19)	1448 WSAV 3 GA 775		CFQC 1 3 SK 1150	
(Same offset)	1729 KWGN 2 CO 770		KVBC 3 NV 1350	
3 tr 0116 W27AU 27 WI 310	2056 CKCK 2 SN 960		KATC 3 LA 725	
(Wausau) WJFW-12	2104 CFRN 3 AB 1380		KIII 3 TX 970	
WEAU 13 WI 290	2125 CITL 4 AB 1270		KWGN 2 CO 770	
0143 (See Note # 1)	CFAC 2 AB 1345		KTVS 3 CO 650	
0253 CKNC 9 ON 637	2200 KRTV 3 MT 1130		(Rare)	
(See Note # 2)	KXLY 4 WA 1400		KGMN 5 WY 750	
0305 W24AI 24 IN 215	8 Es 1331 WWAY 3 NC 810		KCN 4 CO 770	
(Michigan City) TBN	1400 WCIV 4 SC 795		XHIT 4 CH 1195	
@CKCO 13 ON 552	1500 WTVR 6 VA 732		(See Note # 4)	
0420 WWTQ 9 MI 370	WRA 5 NC 735		KVOA 4 AZ 1240	
0443 WWPBN 7 MI 385	WUND 2 NC 835		KNAZ 2 AZ 1200	
3 tr 0448 WLUG 6 MI 429	1700 WESH 2 FL 955			

Frank Merrill (continued)

12 Es	1315 KTVK	3 AZ	1275	22 Es	2200 KTVQ	2 NT	985	WHDQ	2 AL	660		
	1330 XHFI	5 CH	1195		2025 KTVX	4 JT	1130	WHL	4 LA	730		
	1500 KVCB	3 NV	1350		2035 KUTV	2 JT	1125	2200 KMID	2 TX	865		
	1530 KPHO	5 AZ	1275			KSL	5 UT	1130	12 Es	1700 WESH	2 FL	955
	1600 KTVS	3 CO	550	August 1990						WEDU	3 FL	995
	KOCZ	4 UT	1215	1 tr 0330	Cleveland Pitts-			17 tr 0141	W54--	54 ??		
	KSL	5 UT	1130		burgh, Columbus			(unknown)	Family Ch			
	1736 KUTV	2 UT	1125		JHF's				(Paducah ??)			
13 Es	1330 KENW	2 NM	860		WEAO	49 OH	470		K45CA	45 MO	220	
	KDBC	4 TX	1065		WNEO	45 OH	510		(Cape Girardeau TBN)			
	2000 KBME	3 ND	661		WOL 17	OH	490		0400 W2DAG	20 WI	270	
	CKND2	2 MB	820		WSFJ	51 OH	435		Sheboygan TBN			
	2159 KKTO	2 NM	920		WMAT	53 OH	400		1834 W65BV	65 IL	70	
	2317 KOB	4 NM	935	0400	WPXI	11 PA	557		(Springfield WSEC-14)			
	2320 KTVK	3 AZ	1275		WPCB	40 PA	570		18 1s 0025	WQHS	61 OH	470
14 Es	2045 KREM	2 WA	1404		WVIZ	25 OH	465		se snow free to			
	2100 KLEW	3 ID	1380	0437	WTRF	7 WV	520		300 miles			
	KXLF	4 MT	1155	0448	WTOV	4 OH	525		K45CA	45 MO	220	
	2211 WCAX	3 VT	945		WTOL	11 OH	390		W43AGT	43 KY		
	WLSZ	2 ME	1150		WTVG	13 OH	385		(Open carrier)			
	2217 CBAF11	5 NB	1296		WPTD	14 OH	320		CITY	57 OH	616	
	CHS	4 NB	1274		WPTD	16 OH	340		Canada 42,45,48			
15 Es	1829 WFSB	3 CT	930		WHIZ	18 OH	457		54 51, & 68			
	2305 KBCI	2 ID	1320		Over WJFI				Cleveland CCI	470		
16 Es	0033 KUTV	2 UT	1125		WKBW	27 OH	523		Toledo	390		
	0100 KREG	3 CO	885	0452	WHSE	68 NJ	871		Birmingham J5525			
17 Es	2058 WHAY	3 NC	810	0508	WNPB	24 WV	576		Huntsville J5450			
	2100 WSLF	2 TN	431	0525	WGTI	61 DE	810		2735 WTCI	45 TN	465	
	(See Note # 5)				(CCI only)				2830 WYMT	57 KY	459	
	2113 WCOB	2 SC	795	0530	K58DH	58 MO	135		WATL	36 GA	574	
	2200 KKTO	2 NM	920	(St. Louis	VJN)				WDSI	61 TN	465	
18 Es	1800 CFQC1	3 SK	1150	0535	WFMZ	68 PA			(Snow free)			
	CBFP1	3 SK	1070	0550	WGLC	44 OH	490		25 tr 0130	Nashville		
	1830 KACB	3 TX	820		WOSU	34 OH	405		Cincinnati, etc			
	WANC	4 NC	695	0608	WHSE	68 NJ	871		W30AL	30 IL	140	
	1838 WUND	2 NC	835		St 1 in weekly				Plan	CHA		
	at d CHA+ Mexico			2030	2130				0231	W19BA	19 MI	306
	1929 WRAL	5 NC	735		WPXI	11 PA	567		Grand Rapids	TBN		
	2000 WTVR	3 VA	805		WPCB	53 PA	555		0107	C11141	41 ON	676
19 Es	0333 CKND2	2 MB	820		WJW	8 OH	469		0311	W62BL	62 IL	150
	Unit 3, 4 CB's on				WQHS	61 OH	470		0332	C11122	21 ON	437
	chs 3, 4 CKBI?				WNWO	24 OH	390		0355	C11127	27 ON	684
ms 0417	WSL	3 IL	218		WLPW	36 OH	390		0403	@CKCO	41 ON	678
	Previous by tr				WTSF	61 KY	460		0414	W45AV	43 WI	115
tr 0430	WGPR	62 MI	410		WPSY	33 WV	469		(Waukesha)	CHA		
Es 0445	all fade out			2230	WSWP	9 WV	545		0443	CICA51	51 ON	616
	1000 WPBT	2 FL	1165	2 tr 0305	W62BL	62 IL	150		(Good Morning)			
	1020 KMOL	4 TX	885		Pottsville	WHTO	251		a) right ID			
1030	KIII	3 TX	970	0448	WCMH	4 OH	402		1900	WFWA	39 IN	190
1737	WESH	2 FL	975	0449	W29AI	29 OH	CCI		WNNW	24 OH	387	
	WEDL	3 FL	995	Es 832	KREG	3 CO	885		Snow free			
	WPTV	5 FL	1130	1900	KDTN	2 TX	645		CB.N	40 TN	508	
	WCPX	6 FL	1180		KENS	5 TX	885		CIC051	53 ON	508	
1207	WUFT	5 FL	875	1930	KMOL	4 TX	885		WXY?	7 MI	408	
	WCTX	6 FL	1145	2000	KENW	3 NM	860		(CCI on y)			
1220	KPIS	4 TX	965	2030	WFT	5 FL	875		WYTV	31 OH	524	
1223	KUAC	4 TX	735		KDBC	4 TX	1065		0308	WYMT	57 KY	459
	KENS	5 TX	885		KAMR	4 TX	705		0200	WNYB	49 NY	647
1331	WTV	4 FL	165	2100	KACV	2 TX	700		0215	WPBT	22 PA	572
	full CB ch2				XHTO	2 NM	920		W65E	47 PA		
1900	WFB	2 AL	1165	2,46	KDAA	5 CO	755		WPGH	53 PA	557	
1912	XHIT	4 CH	1195	8 tr 2300	WQHS	61 OH	470		0258	WTAJ	10 PA	639
	(// XHRED-13)			10 tr 0107	KTBO	14 OK	500		0318	W25	25 ??	
1921	KVBC	3 NV	1350		0149	KARD	14 LA	585	(???)	Hit video USA)		
2000	KNAL	2 AZ	1100	Es 1400	KNAZ	2 AZ	1200		0324	WCCA	20 DC	725
	XHBQ	3 VA		1900	WEDL	3 FL	995		(Weak)			
2020	KTVK	3 AZ	1275		WESH	2 FL	955		0329	W21AI	21 OH	420
2028	XHBC	3 BN	1475	1930	WTVY	4 AL	715		(Portsmouth TBN)			

Frank Merrill (continued)

26 tr 0335 WTVL 51 PA 773
(CCI only)
0354 W44AG 44 PA 580
(Erie TBN)
0403 W23AT 23 IL 170
(Mokena VJW)
0432 W48AA 48 WV 620
(Keyser WNPB-24)
WDCA 20 DC 725
(On top)
WBNX 55 OH 473
0433 WCKQZ 2 ON 572
(Previous by Es)
0437 WYAH 11 WV 484
0439 WUSA 9 DC 726
0443 W15AD 15 WV 850
(Wardensville WNPB-24)
0454 WNPB 24 WV 576
0456 CFPL 10 ON 512
0500 WGPU 35 MO 604
0505 WICU 12 PA 562
0518 WQWK 13 WV 468
0527 WLVH 15 PA 744

26 tr 0539 unid ch 58 sse
0543 WCHS 8 WV 486
WTOV 9 OH 526
0549 WQLN 54 PA 558
Youngstown 21,
27, & 33 525
2300 WQLN 54 PA 558
WOAC 67 OH 490
Cleveland,
Detroit, etc.
2343 WYMT 57 KY 459
WKSF 61 KY 460
27 tr 0000 CBLN 40 ON 508
0115 WYTV 33 OH 523
0208 ON 48, 59, & 61
W68BV 66 MI 410
(Detroit Univision)
(Rare)
0238 W59BP 59 OH 440
(Ashland CHA)
0239 W58CA 56 OH 406
(Delaware CHA)
0240 W29AI 29 OH 485
(Akron CHA)
(See Note # 6)

27 tr 0330 W50BE 50 OH 450
(Mansfield LPTV,
{WX map w/music,
0429 WDAY 4 WV 535
(Previous by ms)
0440 WYVA 6 WV 553
(under WRTV)
0445 WBR4 15 VA 606
WBSN 47 VA 496
WMSV 52 VA 547
0457 WKOI-43 on 68 ??
0507 W63AH 63 OH 375
(Maplewood WPTD-16)
0519 KELO 11 SD 369
KPTM 42 NE 295
(Overloading)
0530 KOED 11 OK 410
0548 WKFAA 51 AR 359
2010 Cleveland, Detrt,
& Columbus U's
28 tr 0113 K40CO 40 IA 260
0114 K55FL 56 IA 320
(Spencer KMEG-18)
0138 CBLN 40 ON 508
0150 WJFW 12 WI 367

- Note # 1 - (0143, 7/13) Noted on KTTC-10 sign/off was a mention of K67GH, La Crosse, replacing W83AH. If you never logged a channel 83, you won't.
- Note # 2 - (0253, 7/3) Noted with full vertical line-groupings test pattern ("multiburst") without calls. I used to occasionally see this from Toledo in the early 80's. Offset also matched the WTFDA station book.
- Note # 3 - (1919, 7/11) This was a strange opening! There was ABSOLUTELY no fading whatsoever, and the MJF (between KDBC's snow free video and nonexistent audio) did not waver the least bit for at least 20 minutes. Why can one opening be like this and another opening be choppy?
- Note # 4 - (1300, 7/12) This might help solve somebody's mystery. This was a Thursday and they had 3/4 color bars which said Amabe teleaudtor o de canal 13. Partir a las 13:30 hrs. Continuaremos con nuestra programacion. The message was on a "crawl" at the bottom of the screen. They briefly superimposed calls at 1300.
- Note # 5 - (2100, 7/17) I always believed that very short E skip required a stupendous E skip opening! Obviously this was one of those "cheap" openings - never even a sign of activity on channel 4. So, as long as I have "close unlogged stuff", I apparently need to keep alert during very ordinary E skip openings, as well as the July 8th type.
- Note # 6 - (0247, 8/27) Noted AUDIO semi-ID on W29AI: "The greatest stars of all time are on WAI, Cleveland 29"

Ronald Purdue, Route #1, Box 224, Byron MN 55920

CDT

Equipment:

RCA 13" XL-100 color TV, Winegard CS-8200 antenna at 25', Channel Master 0054C preamplifier, Archer amplified video selector.

September 1990

1 tr 1803 KPTM 42 NE 263 1 tr 2101 KTIV 4 IA 218 6 tr 0654 KJMH 28 IA 240
2019 WQRF 39 IL 218 0658 WWSL 46 IL 400
2046 KNEG 14 IA 218 KDSD 17 IL 178 12 tr 0648 WDJT 58 WI 237
2055 KCAJ 9 IA 218 6 tr 0650 KDNL 30 MO 400 0650 WJJA 48 WI 259

This month's tropo conditions were excellent for the first half while in the last half of those conditions were suddenly "burned off" by passages of several Canadian cold fronts.

Other news around here - I saw test patterns of KXLI-41 in St. Cloud on the 27th. Finally, KXLI and KXLT, here in Rochester, returned to the air on the 29th at 1430 with their "TV Heaven" programming along with paid programming that I think no one is watching.

So, not much to report this month. I don't know when the next report will get to Western TV-DX. 73's and see you in 30.

Christopher W. Hanley, 1321 Beecher Avenue, Galesburg IL 61401

CDT

Equipment:

VHF antenna (unknown vintage) at approximately 30 feet. Tab atop Radio Shack JHF bow tie in the attic at approximately 15 feet. Kawasha 13" color set.

Hello again. Mid August to mid September brought me (again!) more TV DX than I expected, often from unexpected distances and directions. After ten years at this hobby, I'll admit to being a novice and an enthusiast who can learn from practically everybody DX'ing TV is, at times, hard work, but it is worth it to me. I hope I never lose the sense of fun that comes with it.

So here's what I got. I've upped my "no relogs under" distance to 280 km (174 miles) to reflect the longer distances I've gotten this season, that will eliminate all Chicago and St. Louis relogs except KNLC 24.

August 1990

24 tr 2245 W33AR 33 IL 113 27 tr 0635 WCET 48 OH 334
(Rockford WCIU-26) 1858 WFYI 20 IN 2152
2309 KNLC 24 MO 2153
25 tr 2234 WKEF 22 OH 333 1910 WTHR 13 IN 231
2324 WBSI 23 MO 248 1910 WNDU 16 IN 2201
2344 WTTK 29 IN 1929 WDRB 41 IN 300 (At last!)

26 tr 0008 KNLC 24 MO 1930 WCLJ 42 IN 247 2204 WCLJ 42 IN 247
0025 WNDU 16 IN 221 1935 WHME 46 IN 223 2230 WTTK 29 IN 240
0030 WSBT 22 IN 220 1937 WIIH 63 IN 247 2250 WTTK 29 IN 300
0106 WGTI 45 OH 333 2037 WSBT 22 IN 247 2339 WDRB 41 IN 300
0836 KPTM 42 NE 305 0545 WHME 46 IN 223 2340 WFIE 14 KY 261
0901 KHLN 36 IA 255 0547 WWSV 28 IN 222 2345 WKYC 32 IN 300
0904 K33AA 33 IA 104 0555 KMLZ 17 MO 190 (MDA Telethon -
(Ottawa KIIN 12) 0910 KSPR 33 MO 292 Evansville, IN,
0930 WKBG 53 KY 334 29 tr 2219 WOI 5 IA 178 Morgentfield, KY,
27 tr 0548 WTTK 29 IN 235 30 tr 0549 WTTK 29 IN 235 Owensboro, KY
0550 WHME 46 IN 305 31 tr 0600 KPTM 42 NE 305 (phone numbers)
0555 WXIN 59 IN 231 0603 KTMN 21 IA 245

Thanks to Jerry Beaudin; his photo reprinted in a past VJD helped me identify KSPR-33. Thanks also for an unexpected visit from Marvin Shults, who brought his huge album of station ID photos. And thanks to Jerry Lewis for putting his MDA Telethon on during a big siege of tropo. Last but not least, thanks to all the VUD editors for they work they put in. 73's to all.

(Chris, I wonder if your channel 65 with Evansville, etc. phone numbers might be W55CD Paducah, Kentucky. That is a construction permit for a channel change by the local channel 54 LPTV which had been RFD-TV. Perhaps they have gone on the air and are translating one of the Evansville television stations. fm

Mike Cherry, Box 631, Ganges BC V0S-1E0 (604) 537 5201

PDT

Equipment:

See September 1990 Western TV-DX

August 1990

28 tr 0922 KWCT 27 WA 185 9 tr 2200+ OR 24, 32 strong 17 tr 0750 WBLT 34 BC 65
(Strong) 10 tr 0300-1100 OR 24, 32 0754 CHAN9 21 BC 98
still in strong 1043 K54AC 54 WA 95
1047 KTVZ 21 OR 346 (Bremerton KIRO-7)
2220 15,24,32 s/free (Very rare!)

September 1990 2226 KAPP 35 WA 213 19 ms 2206 unid ch3 14 secs
0857 KNMZZ 2 NM 2227 KVEW 42 WA 279 20 tr 0537 WA 35,42, 25, 29
0900 KOB 4 NM 1280 12 tr 0848 KNDO 23 WA 213 (Briefly)

4 tr 2023 K36BO 36 WA 70 (Loc. CHAN6 off) 21 ms 0339 unid ch 2 5 secs
(Deming KOMO-4) 0852 KNDU 25 WA 279 (3/4 color bars)
(Snow free) 2357 KNMT 24 OR 234 24 tr 0619 WCBUT 25 BC 87
6 tr 0800 KCKA 15 WA 161 14 Es 0900 SKTVS 3 CO 1150 0623 WCBUT 14 BC 76
(Snow free) 16 ms 0515 unid ch 2 9 secs (S/free-unusual)
Es 1000 KSWK 3 KS 1350 tr 2114 KIMA 29 WA 213

Locally, KBGE 33 Bellevue-Seattle is silent. It had been HSN.

Mike Cherry (continued)

This years E skip season was better than last years. I'm still floored by my reception of KTBS-3 (1887 miles) and KIII-3 (2007 miles). I am eagerly waiting to see Doug Allen's next TV report. I think these signals may have been tropo to the Nebraska-Kansas-Colorado "uplink" for E skip at my QTH. Otherwise, these must be "cloud to cloud" or possibly ionospheric ducting as Joop J. Prosee described in his excellent update on current propagation theories and research.

Temperature inversions on September 9, 10 and 17 brought fog and early-season tropo from various coastal locales, both north and south.

I've noticed high F2 MUF and 200+ solar flux one or two days in the last few weeks, but foreign TV frequencies (45+ MHz) don't seem affected yet. No aurora noted yet.

Finally, a couple of amateurs who are into VHF/JHF have moved to the sand and I've met them recently and am putting the bug in their ears to try DX'ing TV & FM. We have been discussing the theoretical possibilities of moonbounce (EME) at the low end of the JHF TV dial using 7 foot parabolic reflectors and a phased 4 x 4 array. Has anyone in the club experimented with moonbounce at all? Is it theoretically possible (especially with varied time zones and having powerful enough transmitters on locally clear TV channels)? These amateurs seem to think that frequencies in the low part of the UHF band are at the ideal wavelengths for EME.

Lastly...a note to John Combs; your change to my geographical coordinates was correct. Thanks. Until next report... 73's, Mike

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228-2744

CST

Equipment

1980 mode. 9" J.C. Penney b&w with Archer V 100 and 8-bay bow tie JHF array at 20 feet with rotor

July 1990

1 tr 2340	KPLC	7 LA	335	11 Es 1300	KTWO	2 WY	1015	25 tr 2055	KADN	15 LA	380
2 tr 0352	KTRE	9 TX	260	1511	WJMM	3 MI	1310	2158	KLTL	8 LA	335
0413	KNOE	8 LA	425		WISC	3 WI	1060	2215	KTFH	49 TX	205
Es 2057	KOTA	3 SD	1040	1525	WBAY	2 WI	1180		KFDM	6 TX	275
3 tr 0054	KBMT	12 TX	260	1541	KGAN	2 IA	960	2249	KLFV	10 LA	370
0058	KLFY	10 LA	370	2113	WMMT	3 MI	1160	2258	K33DB	33 TX	190
0106	KPLC	7 LA	335	2126	WCIA	3 IL	930		(Houston)		
0109	KFDM	6 TX	275	2209	KREG	3 CO	850	2302	WVLA	33 LA	435
4 Es 0959	KOTA	3 SD	1040	12 Es 0957	WBTY	3 NC	1085	2348	KTRE	9 LA	260
6 Es 0950	WJBF	8 GA	1020	1059	KDLO	3 SD	1070	26 tr 0003	KFDM	6 TX	275
7 Es 0829	WBTY	3 NC	1085	1100	WSIL	3 IL	790	0019	KLFY	10 LA	370
	WFMY	2 NC	1170	1101	WTHO	2 IN	925	0538	KLTS	21 LA	300
0830	WRAJ	5 NC	1235	1129	KXMA	2 ND	1215		KLTL	18 LA	335
0959	WSAZ	3 WV	1120	1132	KOTA	3 SD	1040	27 Es 0959	WPBT	2 FL	1145
	WDTN	2 OH	1075	1159	KUSD	2 SD	940	1025	WESH	2 FL	1035
1216	KDLO	3 SD	1070	2100	WSJK	2 TN	1005	1029	WEDU	3 FL	990
1228	WAVE	3 IN	950	2113	KDLH	3 MN	1245	1059	WSAV	3 GA	1035
1257	WSYX	6 OH	1140	2128	KDLO	3 SD	1070	1100	WRBL	3 GA	835
1411	WLNS	6 MI	1205	2225	KOTA	3 SD	1040	28 Es 0818	WDTN	2 OH	1075
8 Es 1029	WSIL	3 IL	790	2259	KIDK	3 ID	1240	29 Es 1345	WBTY	3 NC	1085
1330	KMOH	6 AZ	1000	18 Es 1630	WSJK	2 TN	1005	1349	WFMY	2 NC	1170
1558	KBME	3 ND	1190	1755	WBTY	3 NC	1085	1527	WCTV	6 GA	875
1559	KUSD	2 SD	940	19 Es 0559	WRCB	3 TN	865	1729	WEDU	3 FL	990
9 tr 0058	KBMT	12 TX	280	0859	WWAY	3 NC	1235	31 Es 1259	WSJK	2 TN	1005
Es 1222	YSR	2 El Salvadr		1259	CKVR	3 ON	1455	1345	WBTY	3 NC	1085
1235	TGV	3 Guatemala		1337	WSAZ	3 WV	1120	1444	WFMY	2 NC	1170
2259	KIDK	3 ID	1240	1744	KINT	3 IA	1010	1608	WSAZ	3 WV	1120
11 Es 1059	WCBD	2 SC	1135	1859	KLNE	3 NE	755	1613	WKRR	2 TN	815
1129	WBTY	3 NC	1085	22 tr 0420	KTRE	9 TX	260	1615	WAVE	3 KY	950
1159	WSAZ	3 WV	1120	0425	KLTV	7 TX	290	1629	WDTN	2 OH	1075
1259	KDLO	3 SD	1070	Es 1957	KGAN	2 IA	960	1701	KGAN	2 IA	960
				25 tr 2030	KPLC	7 LA	335	1725	KMTV	3 NE	830

This is getting to be "old" by now. There was 144 MHz E skip into Florida, Georgia, and even Mississippi, on July 29th.

Some of this UHF tropo is being caught with the 13" 1987 RCA color set as the transplanted Penney '76 UHF tuner goes into some self-oscillation much above channel 50 as well as suffering from poor image rejection and spurs on the lower end.

Any "bargain" Teknika tuners left out there? 73, Pat, WA5IYX

William Eckberg, 1032 Sterling Road, Dixon IL 61021

COT

Equipment

1966 Zenith b&w tube receiver ch 14N22, modified Zenith 175-1962 detent tuner. Channel Master 1110 VHF antenna. Channel Master 7 foot UHF parabolic antenna with Winegard PA4975 preamplifier on a 40' tower.

August 1990

10 Es 1200	KKTO	2 NM	972	26 tr 0400	WZTV	17 TN	408	27 tr 2320	WPGH	53 PA	491
14 tr 2200	W62BU	62 IL	42	0440	WOIO	19 OH	401	2330	WOAC	67 OH	417
	(Rockford)	WNT0-35)		0442	CKCO	13 OH	481	28 tr 0045	WNEO	45 OH	426
24 tr 2300	W65BK	65 IN	183	0455	CFPL	10 OH	419		WAE0	49 OH	404
	(Terra Haute)	TBN)		0500	CHCH	11 OH	488	0100	WOIO	19 OH	401
25 tr 0130	W28AI	28 IL	217	0505	CBLN	40 OH	419	0105	WYMT	57 KY	449
	(Salem religious)			0530	WOWK	13 WV	428	0300	K39AS	39 IA	181
0200	W34AY	34 IL	124	0550	WFMJ	21 OH	450		(Marshalltown)	CHA)	
	(Champaign)	TBN)		0555	WNEO	17 NY	537	0358	WVAH	11 WV	463
0205	W47AZ	47 IN	214	0558	WJET	24 PA	481				
	(Indianapolis)	VJN)		0600	WAKC	23 OH	404				
0230	K58DH	58 MO	213	27 tr 0040	WNEO	45 OH	426	September 1990			
	(St. Louis)	VJN)			WAE0	49 OH	404	6 tr 0440	KSAX	42 MN	404
2305	WOAC	67 OH	417	0043	WYMT	57 KY	449	12 tr 0430	KSAX	42 MN	404
2330	WPGH	53 PA	491	0110	WOIO	19 OH	401	19 tr 2400	W45A	45 IL	52
26 tr 0005	WNEO	45 OH	426	0208	WVAH	11 WV	463		(Rockford)	CHA)	
0008	WAE0	49 OH	404	0420	WKPT	19 TN	508	21 tr 0040	WYMT	57 KY	449
0105	WYMT	57 KY	449	0445	WBRA	15 VA	583	27 tr 0420	W19BA	19 MI	209
0250	WVAH	11 WV	463	0447	WSBN	47 VA	483		(Grand Rapids)	TBN)	
0350	WTAJ	10 PA	571		WMSY	52 VA	533	29 tr 0510	K23CI	23 IA	158
									(Ottumwa)	KCCI-8)	

Had excellent tropo spanning August 24-28 to 600 miles. Pano, channel 30, is back on after testing one night in April. Also, a new channel 45 in Loves Park (Rockford 'in). I received them six hours after sign on. There was an article concerning them in the local newspaper. Both are Channel America. Also logged many new close in translators and LPTV's. DX'ing is becoming very difficult in the UHF spectrum as it is becoming so cluttered here with translators and LPTV's.

CORRECTION. In the October 1990 Western TV DX column, Mike Cherry's logging of KFOR on August 10 at 1959 should have been listed as 1615 miles, not 1670 miles. My mistake

STATION BREAK

WTFDA
P.O. Box 514
Buffalo, NY 14205-0514

WTFDA member ads only. Items may be edited to conserve space.

FOR SALE - Car cassette/radio, M.E.I. model CX 143E. Digital tuning, auto reverse, two track (can be wired to balance or fade, but not both) cassette hardly used, works fine (traded in old car, kept radio) \$25. Radio Shack rotor and outdoor antenna, plus 100' coax, lightning rod, connectors, etc. Been up less than year, rotor hardly used.

Make offer

Gus Mancuso - 5615 Inwood St. - Hyatts MD 20785 (301) 773-3072

WANTED TO BUY - I am looking for copies of the following editions of the World Radio-TV Handbook: 1974, 1975, 1977, and 1978. Replies should state condition and price.

WANTED TO TRADE - Audio Airchecks of Louisville KY radio (either AM or FM). Have several airchecks, etc for trade.

Bob Walker - 30900 Stone Ridge Drive #7314 - Nixon MI 48393

SOUTHERN FM DX

Danny Huntin
1312 W. Skyline
Stillwater, OK 74075

HEADLINE: 14th

NOVEMBER 1990

SOUTHERN FM DX IS FOR REPORTS FROM: AL, AR, AZ, CA, CO, DC, DE, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OH, SC, TN, TX, UT, VA & WV.

500+ MILE TROP PLUS ES FROM COLOMBIA AND CENTRAL AMERICA HIGHLIGHT THIS MONTH.

Doug Allen, W2CRS, P. O. Box 5646, Woodland Park, CO 80866

Equipmt: Pioneer TX 9800 (IF modified) & stacked Stereo Probe 9c at 25'
(Stations under 400 miles not reported unless new or remarkable!)

9/1 tr
0700 KZRX 96.9 NE Seward, noisy 500
0701 KHNE 89.1 NE Hastings
0715 WOV 94.1 NE Omaha 504
0715 KEZO 92.3 NE Omaha 504
0726 KNGY 97.7 NE Nebraska City, o/u KUVR
9/11 ms & tr
0912 WDDJ 96.9 KY Paducah, ads, "97 FM"
0930 KNID 96.9 Oh Enid
9/19 ms & tr
0400 WLSU 88.9 WI LaCrosse, ID, s/o, 15
sec. burst
0800-0900 western KS stations very strong
9/24 as
0800 WJHA 94.5 LA Shreveport,
"KWRH AM and FM Shreveport"

My MO 99.3 CL turned out to be KCLR, not KLSR as I speculated. Still wondering about 97.9 "K98 FM", and 105.9 "KICKS 106". Some strong openings into western KS, but everything over 300 miles was weak. MY VHF TV system is working well, but it's on a different tower and in a different room, so I can't DX FM and TV at the same time yet. 73.

Fat Dyer, W4SYX, 5315 Silvertip Dr., San Antonio, TX, 78228-2744

7/4 ss
1000 KIZN 92.3 ID Boise
1006 KOPR 94.1 MT Butte
1016 KIZY 92.5 WY Powell
1050 KFKY 94.9 ID Pocatello
1051 KUUB 95.1 MT Bozeman
1058 KBXL 94.1 ID Caldwell
1108 KEYA 88.5 ND Belcourt
7/6 Es
0915 WHLZ 92.5 SC Manning
0919 WLWI 92.3 AL Montgomery
0923 WLLN 105.9 FL Panama City
0925 WYBB 98.1 SC Folly Beach
0926 WNFI 99.9 FL Palatka
0928 ITOI 108.9 AL Troy
0930 WRZR 102.3 GA Milledgeville
0933 WERS 103.9 GA Gainsboro
0936 WPEZ 107.9 GA Macon
0937 WOGQ 107.3 GA Columbus
0939 WYAI 104.1 CA La Grange
0941 WBBQ 104.3 GA Augusta
0943 WJYJ 107.9 SC Hilton Head IS.
0945 WSYA 103.3 AL Montgomery
0949 WRAH 96.3 SC Aiken
0952 WUTC 96.9 SC Charleston
0957 WFXA 103.1 CA Augusta
1007 WSTH 106.1 AL Alexander City
1018 WTSH 107.1 GA Rockmart
1019 WGNU 106.3 AL Brewton
1031 WPAP 92.5 FL Panama City
1033 WTNT 94.9 FL Tallahassee
1035 WBCM 98.9 FL Tallahassee
1038 WRDA 92.3 FL Orlando
1040 WMEZ 94.1 FL Pensacola
1054 WBIL 95.9 AL Tuskegee
1059 WFGH 88.5 SC Charleston
2002 WVPN 88.5 WV Charleston

9/29 ms
0740 WDDJ 96.9 KY Paducah, ad
10/1 tr
0042 KFEZ 93.7 KS Salina 400
0043 KFKF 94.1 KS Kansas City, 94 country 535
0044 KUDL 98.1 KS Kansas City, ad
0046 KJCK 94.5 KS Junction City, "Power 95"
0048 KMBR 99.7 MO Kansas City, ad 565
0051 KTRFF 100.1 ? ID in noise
0055-0200 TV Dxed
0210 KTFK 106.9 KS Topeka, wx 490
0235 KWGB 104.3 KS Great Bend, k, "Proud
Country", KJCS was briefly silent, KS #55
0305 KTFK 103.3 OK Tulsa, "Fox 103", 550
briefly o/kJLS

7/7 Es
0805 WARR 92.3 NC Asheville
0814 WPEC 97.9 NC Concord
0829 WFDD 88.5 NC Winston-Salem
0839 WYTH 93.9 CA Moultrie
0851 WAUB 104.9 CA Blackshear
0854 WHFX 103.3 CA Waycross
0855 WHHE 106.1 SC Hilton Head IS.
0856 WJYJ 107.9 SC Hilton Head IS.
0858 WSSA 95.1 SC Charleston
0902 WZLI 106.1 GA Toccoa
0906 WJGE 96.5 GA Savannah
0910 WJXH 95.9 GA Alna
0912 WQZY 95.9 GA Dublin
0915 ITOI 108.9 AL Troy
0919 WUTC 96.9 SC Charleston
0925 WFXE 104.9 GA Columbus
0926 WYAL 103.1 SC Surfside Beach
0929 WESC 92.5 SC Greenville
0931 WTVK 107.7 TN Knoxville
0933 WNDL 95.1 AL Huntsville
0934 WJXX 93.3 TN Tullahoma
0940 WJLK 92.3 VA Roanoke
WTFM 98.5 TN Kingsport
0953 WJIE 88.5 KY Okolona
1003 WTLG 88.3 FL Starke
1011 WYON 93.5 CA Hazlehurst
1014 WXTT 92.3 OH Columbus
1024 WJJK 95.3 OH Xenia
1025 WRRM 98.5 OH Cincinnati
1027 WHLZ 92.5 SC Manning
1030 WNNN 106.1 IN North Vernon
1044 WCDW 103.1 IN Covington
1046 WLSH 96.9 NC Goldsboro
1049 WKAX 104.1 IL Jerseyville
1050 WNSN 101.5 IN South Bend
cont....

SOUTHERN FM DX

7/7 Es
1051 WIL 92.3 MO St. Louis
1056 WDDJ 95.1 IL Decatur
1058 WVVX 103.1 IL Highland Park
1100 WYCA 92.3 IN Hammond
1105 WKXA 97.9 GA Fort Valley
1106 WLMI 92.3 AL Montgomery
1112 WZNY 105.7 GA Augusta
WKRT 93.1 IL Chicago
1105 WKXA 97.9 GA Fort Valley
1106 WLMI 92.3 AL Montgomery
1112 WZNY 105.7 GA Augusta
1119 WBWI 92.5 WI West Bend
1122 WAPL 105.7 WI Appleton
1123 WJZZ 95.1 WI Kenosha
1124 WAAG 94.9 IL Galeburg
1127 WIZM 93.3 WI La Crosse
1128 WFFX 94.1 WI Watertown
1129 KOEL 92.3 IA Oelwein
1130 WXXQ 98.5 IL Freeport
1131 WMBI 103.7 WI Ladysmith
1132 KLSS 106.1 IA Mason City
1135 WMT 96.5 IA Cedar Rapids
1136 WFFL 103.9 GA Blue Ridge
1137 WIAL 94.1 WI Eau Claire
1138 KSPT 97.9 WI Stevens Point
1140 WTRR 104.1 NC Winston-Salem
1146 KEEZ 99.1 MN Mankato
1149 WKIL 95.1 WV Parkersburg
1152 KEXR 94.9 MN Litchfield
1153 WPAV 104.1 OH Portsmouth
1157 WFTB 95.9 KY Mayesville
1200 WHBC 94.1 OH Canton
1200 WBVS 96.5 OH Hamilton
1203 WABW 93.3 OH Cincinnati
1210 WADD 96.5 ND Bismarck
1221 GMR 93.9 ON Windsor
1222 KQAA 94.9 SD Aberdeen
1223 KBYZ 96.5 ND Bismarck
1225 KQKY 105.9 NE Kearney
1230 WBTU 93.3 IN Kendallville
1234 WNNW 98.5 MI Coldwater
1235 WIBM 94.1 MI Jackson
1237 WLMN 95.9 MI Three Rivers
1241 WQLR 106.5 MI Kalamazoo
1243 WOOD 105.7 MI Grand Rapids
1250 WJTW 93.5 IL Joliet
1252 WLHT 95.7 MI Grand Rapids
1253 WHIL 106.1 WI Waukegan
1255 WKHQ 105.9 MI Charlevoix
1259 WKHY 93.5 IN Lafayette
1305 WVPK 88.1 IN Elkhart
1306 WNGO 98.7 IA Centerville
1309 KAMK 93.9 SD Rapid City
1310 WVIC 94.9 MI East Lansing
1312 KSTW 94.1 IL Aberdeen
1313 WSMI 108.1 IL Litchfield
1315 WAFR 103.3 MI Battle Creek
1322 WLAU 96.9 MI Grand Rapids
1324 WBUS 99.9 IL Kankakee
1325 WDEB 92.5 IL De Kalb
1326 WCBR 92.7 IL Arlington Hts.
1327 WJXX 105.1 OH Salem
1338 KSGY 95.1 SD Deadwood
1339 WQAL 104.1 OH Toledo
1341 WQLX 102.3 OH Galion
1342 WCRF 103.3 OH Cleveland
1350 WJLH 98.5 WI Green Bay
1353 WTSB 92.3 IN Bloomington
1354 WVKR 92.5 OH Toledo
1357 WTFI 107.9 IN Indianapolis
1359 WJCG 99.3 IN Van Buren

Dyer, cont.

7/7 Es
1430 WUPB 98.5 MI Houghton Lake
1446 WTBX 93.9 MN Hibbing
7/8 Es
1336 WARR 92.3 NC Asheville
1337 WZZU 93.9 NC Burlington
1339 WYST 92.3 MD Baltimore
1358 WAYS 93.9 DC Washington
1418 KKFH 92.3 AZ Glendale
1419 KOY 95.5 AZ Phoenix
1421 KSLT 98.7 AZ Phoenix
1457 WVPN 88.5 WV Charleston
1529 KESD 99.3 SD Brookings
7/9 tr
1222 XHSRO 92.5 NL Monterrey
Es
1251 TGRT 88.8 Gua Guatemala City
1253 TG---88.5 Gua
YSR---89.0 SLS San Salvador
1300 TGFPE 88.1 Gua Guatemala City
1315 TG---98.6 Gua Guatemala City
2009 WATR 92.5 MI Atlanta
2029 WJZQ 95.1 WI Kenosha
2033 KOEL 92.3 IA Oelwein
2038 ARFN 107.9 UT Roy
2039 KZZJ 95.7 ID Twin Falls
2041 KFTZ 103.1 ID Idaho Falls
2048 KLGJ 94.1 UT Salt Lake City
2049 KROK 93.5 CO Leadville
2051 KLEY 92.5 WY Powell
2055 KJYE 92.3 CO Grand Junction
2058 KLGX 93.3 UT Salt Lake City
2059 KHZT 94.9 UT Provo
2100 AZJH 95.7 WY Jackson
2109 KBFI 105.9 CO Denver
2112 KTAG 97.9 WY Cody
2127 KLWD 96.5 WY Sheridan
2133 KMTS 2.7 CO Glenwood Springs
2138 KAVL 96.9 WY Gillette
2143 KZBQ 93.7 ID Pocatello
2149 KYCS 95.1 WY Rock Springs
tr
2201 KJLM 104.9 TX Llano
7/11 Es
1126 WJLK 92.3 VA Roanoke
1135 WJJD 97.7 VA Grundy
1148 WVPN 88.5 WV Charleston
1153 KEYA 88.5 ND Belcourt
1226 KLCY 94.1 UT Salt Lake City
1228 KZHT 94.9 UT Provo
1246 KJLD 95.1 CO Delta
1250 KARC 93.5 SD Sioux Falls
1253 KTAH 93.9 WY Riverton
1314 KIMX 88.7 OH Windsor
1318 WBTU 93.3 IN Kendallville
1456 WGVU 88.5 MI Allendale
1529 WIAA 88.7 MI Interlochen
1600 WZZZ 93.5 MI New London
1616 WJPD 92.3 MI Ishpeming
1628 WOLK 94.9 WI Baraboo
1632 WHWL 95.7 MI Marquette
2108 KQWR 93.9 ON Windsor
7/12 tr
1134 KNFM 92.3 TX Midland
Es
1211 KKKK 93.9 SD Rapid City
1220 WNGM 92.5 MT Miles City
1340 KQDY 94.5 ND Bismarck
1342 KBYZ 96.5 ND Bismarck
1342 KGFY 92.7 SD Pierre
1444 KDZN 96.5 MT Glendive, cont....

NOVEMBER 1990

SOUTHERN FM DX

7/12 Es
 1452 KSGY 95.1 SD Deadwood
 1459 KOGN 95.7 MT Scooby
 1500 KOGH 93.1 MT Sidney
 1508 KLAN 93.5 MT Glasgow
 1528 KYZZ 92.7 MT Wolf Point
 7/13 Es
 0756 TG-- 88.5 Gua
 2049 WZTR 95.7 WI Milwaukee
 2050 WLUP 97.9 IL Chicago
 2052 WTFX 94.1 WI Watertown
 2141 KRWQ 92.5 MN Warroad
 2143 KQWB 98.7 MN Moorhead
 2207 CBWW 97.9 MB Brandon
 2216 KEYA 88.5 ND Belcourt
 2232 KNCM 92.5 MT Miles City
 7/18 Es
 1640 WIKQ 94.9 TN Greenville
 1644 WEGN 93.5 AL Evergreen
 1646 WBCN 98.9 FL Tallahassee
 1552 WKQL 96.9 FL Jacksonville
 1655 WOCL 105.9 FL De Land
 1657 WSSP 104.1 FL Cocoa Beach
 1659 WMTM 93.9 GA Moultrie
 1700 WHPX 103.3 GA Waycross
 1708 WZLI 106.1 GA Toccoa
 1712 WZZE 95.1 NC Charlotte
 1713 WSPA 98.9 SC Spartanburg
 1730 WESG 92.5 SC Greenville
 1734 WSOC 103.7 NC Charlotte
 1736 WWSI 98.7 NC Greensboro
 1737 WBT 107.9 NC Charlotte
 1738 WKRR 92.3 NC Asheville
 1741 WWUF 97.7 GA Waycross
 1743 WQFW 95.7 GA Valdosta
 1759 WLPT 88.3 GA Jesup
 7/19 Es
 0759 WMCU 89.7 FL Miami
 0820 WUAW 88.3 NC Erwin
 WNHV 92.3 NC Nags Head
 0824 WXLK 92.3 VA Roanoke
 0900 WMOX 93.1 NC Winston-Salem
 0906 WAMU 88.5 DC Washington
 0920 WKRG 101.5 IN Columbus
 0922 WKSI 98.7 NC Greensboro
 0925 WSIP 98.9 KY Paintsville
 0927 WXLX 95.1 WV Parkersburg
 0934 WTCR 103.3 WV Huntington
 0937 WQMG 104.3 MI Detroit
 0939 WXGG 96.5 WV Williston
 0948 WVIC 94.9 MI East Lansing
 0951 WNNK 94.1 OH Cincinnati
 0952 WADD 96.5 OH Akron
 0954 WNCI 97.9 OH Columbus
 0955 WPMY 98.7 IL Chicago
 0956 WBBY 103.9 OH Westerville
 0957 WRKA 103.1 KY St. Matthews
 1004 WRRR 93.9 WV St. Marys
 1008 WIKB 99.1 MI Iron River
 1028 WOLX 94.9 WI Baraboo
 1029 WGLR 95.7 OH Piqua
 1030 WLBC 104.1 IN Muncie
 1032 WKHQ 105.9 MI Charlevoix
 1035 WVKX 92.5 OH Toledo
 1039 WMLC 103.8 IN Indianapolis
 1040 WJZZ 105.9 MI Detroit
 1044 WLST 95.1 WI Marinette
 1049 WQLR 106.5 MI Kalamazoo
 1051 WCRZ 107.9 MI Flint
 1052 WALR 92.5 MI Atlanta
 1054 WIBM 94.1 MI Jackson

Dyer, cont.

7/19 Es

1059 WLQR 101.5 OH Toledo
 WXPB 99.3 IL Mt. Zion
 1102 WLTO 103.9 MI Harbor Springs
 1105 WOMA 96.5 WI Algoma
 1115 WMLL 106.1 WI Waukesha
 1117 WMGV 103.9 WI Oshkosh
 1123 WJFD 92.3 MI Ishpeming
 1129 WJZQ 95.1 WI Kenosha
 1135 WKXG 94.9 MN Litchfield
 1136 WKLB 96.5 WI Milwaukee
 1137 WTBX 93.9 MN Hibbing
 1138 WLHT 95.7 MI Grand Rapids
 1154 KESD 88.3 SD Brookings
 1200 KRWQ 92.5 MN Warroad
 1204 WKLB 98.9 NY Rochester
 1209 KRMK 92.9 SD Rapid City
 1214 KNCM 92.5 MT Miles City
 1222 GJEX 92.7 ON London
 1237 KSGY 95.1 SD Deadwood
 1238 KDXN 9.65 MT Glendive
 1252 WMRK 2.3 MI Detroit
 1253 CIMX 88.7 CN Windsor
 1759 KOEL 92.3 IA Osceola
 1802 KTUP 93.5 MO Kirksville
 1803 KCGK 88.3 IA Cedar Rapids
 7/25 tr
 0821 XHJD 98.9 NL Monterrey
 0847 X--- 93.5 TAM Matamoros
 2059 WCLW 92.3 LA Laplace
 2225 KIOC 106.1 TX Orange
 2228 WYNK 101.5 LA Baton Rouge
 2241 KYAS 105.1 TX Lufkin
 2259 KTXB 89.7 TX Beaumont
 2335 KHUN 101.7 TX Huntsville
 2353 KNUE 101.5 TX Tyler
 7/26 tr
 0005 KQGR 100.9 LA Sulphur
 0021 KYKR 93.3 TX Port Arthur
 0534 KREP 92.3 TX Marshall
 0535 KUEZ 99.3 TX Lufkin
 0727 KTUX 98.9 TX Carthage
 0731 KXAL 103.1 TX Pittsburg
 7/27 Es
 0959 WRPX 88.5 FL Sunrise
 WCMQ 92.3 FL Hialeah
 1004 WRMF 97.9 FL Palm Beach
 1007 WJIS 88.1 FL Bradenton
 1013 WYUJ 92.5 FL Safety Harbor
 1015 WGYL 93.5 FL Vero Beach
 1021 WFIT 89.5 FL Melbourne
 tr
 1052 KYKR 93.3 TX Port Arthur
 7/28 Es
 0836 WXGT 92.3 OH Columbus
 Es
 0859 WKYN 89.7 TN Chattanooga
 7/29 Es
 1229 WJFR 88.7 FL Jacksonville
 1403 WHEV 93.9 VA Marion
 1414 WRAS 88.5 GA Atlanta
 1436 WZAZ 92.7 FL Green Cove Springs
 1441 WHJX 101.5 GA Brunswick
 1448 WJIA 93.3 GA St. Marys
 1449 WKQL 96.9 FL Jacksonville
 1453 WMTM 93.9 GA Moultrie
 1500 WOKF 92.5 GA Folkston
 1512 WRJN 93.5 AL Geneva
 1515 WQIK 99.1 FL Jacksonville
 1519 WNFI 99.9 FL Palatka
 cont...

NOVEMBER 1990

SOUTHERN FM DX

7/29 Es
 1524 WFSY 98.5 FL Panama City
 1528 WQFW 95.7 GA Valdosta
 1530 WJUF 106.3 CA Boston
 1538 WCCO 98.3 CA Jesup
 1540 WBRK 93.1 GA Blakely
 1541 WINT 94.9 FL Tallahassee
 1546 GEF 109.0 FL Greenville
 1648 WKKA 92.3 FL Daytona Beach
 1551 WZLS 96.7 CA Baldosta
 1554 WOCL 105.9 FL De Land
 1557 WQFW 107.3 FL Pensacola
 1559 WFFM 107.9 FL Panama City
 1602 WJXT 95.3 CA Nashville
 1606 WMRZ 93.7 FL Ocala
 1618 WLOI 100.7 CA Brunswick
 1659 WSSP 104.1 FL Cocoa Beach
 WTRS 102.3 FL Dunnellon
 1712 WUSF 89.7 FL Tampa
 1715 WYUJ 92.5 FL Safety Harbor
 Equip.: TM-1001 tuner with two 150-kHz IF filters in use, Archer 6-m antenna at 20' with rotor. July 29 MUF hit 144 MHz with skip there as short as Mississippi.

Gus Mancuso, 5615 Inwood St., Hyatts, MD 20985

Bandscan from Emporia, VA 9/19 to 9/21: Longest catch--WWSN 107.7 OH Dayton. Total 158. (2nd best scan ever) Did not make the anticipated trip to South Hill, VA due to illness. Also scanned from New Bern, NC. Got 112 Stations (too many 100kw local + semi locals). Stayed 2 nights in each spot. Went to convention AM not a dirty word. Ohio from Emporia was fluky. All others were from DC to SC. Got CA, also from New Bern. South Hill looking better & better--WVRS 107.3, WLCQ 98.3, WGST 91.3 off air. WFGT 91.3 signs off 7 pm and WSHV 105.5 at 11 pm leaves only 12 stations within 50 miles. Several other educats 50-75 mi. away not on air.

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74075

10/5 tr
 0942 Houston, TX in 460
 0943 KYNB 89.5 TX Tyler 290
 0944 KDXE 95.9 TX Sulphur Springs
 0948 KJZY 99.1 TX Denton 205
 1000 KNRW 97.7 TX Rusk
 1010 KDAQ 89.9 LA Shreveport 320
 1014 KBBT 93.5 TX Crockett, ads
 10/5 tr
 1016 WCRW 92.3 LA Laplace, classic r 570
 1020 KKBQ 92.9 TX Pasadena, ad
 1030 KIVY 92.7 TX Crockett
 1034 KKBH 106.3 OK Broken Bow
 1043 KITY 95.5 OK Hugo, calls "Red River country", ex 95.3
 1049 KISX 107.3 TX Whitehouse, Kiss 107"
 1054 KZMZ 96.9 LA Alexandria, "Power 96.9" 430

Christopher S. Dunne, Box 533, 21500 Johnson St., Pembroke Pines, FL 33029

Equipment: GE Superadio II mod. w/ 150 filters, Radio Shack 6-element FM antenna, Soundesign stereo

D F E T
 X I S A

It was a veritable party on the morning of Sep 27 with a strong E opening to Central and South America. Not knowing enough Spanish, I employed help on some stations for ID, although a couple were easy to ID. I also relied on some old and new FM lists. All stations were logged 9/27/90 between 0800 & 1230 (yes, 4 1/2 hours!), all Es & SS language except the last one (Tr). Enough gap - let's get to it! Muchas gracias to: the Lord for Es/Tr; Jeff White (non-member) for some of the IDs; and also much thanks to Mike Dorner and all the collaborators of the WTFDA book ONDAS FM for some call signs; + thanks to the broadcasting organizations who provided me with station lists.

Call	Freq.	Location, details	Miles
cu	88.1	GT Guatemala City, b (ee), R. Fabues-terero? (OF)	1050
TGRT	88.8	GT Guatemala City, n, female voice (OF)	1050
HJOF	89.1	CL Barranquilla, Caribe Estereo/CARACOL	1100
HJW	90.5	CL Cartagena, mention of Cartagena, 860w	1100
HOHST?	90.9	PN (possibly) Chitre, RPC Radio (JW, OF)	1120
unid	91.5	CR? "Musica Fundacion" (JW)	
cu	91.7	PN Panama City? "La Voz" (JW)	1120
HJOJ	92.1	CL Barranquilla, Olimpica Estereo	1100
TIHB	94.3	CR San Jose, Radio Reloj (JW, OF) (es)	1100
CONT....			

Call	Freq.	Location, details	Miles
HRUP	94.7 HO	Tegucigalpa (100w) or Olanchito (1000 w), R. America	916
cu	95.9 GT	Guat. City, R. Ranchera	1050
unid	96.1 ES?	ment. El Salvador	
unid	96.3 CL?	ment. Cali, no Cali @ 96.3	
HRUP4t	96.7 HO?	San Pedro Sula, ment. "San Pedro",	

Most mileages are rough guesstimates. ABBREVIATIONS: (ee) = DX on estereo. OF=ONDAS.
(JW) = Jeff White or ID'd by him. R. = Radio. GT = Guatemala. CL = Colombia.
CR = Costa Rica. PM = Panama. HO = Honduras. ES = El Salvador. MX = Mexico.
cu = call unknown.

This is DX I'd been waiting for for a long, long time. As they say in these countries, adios amigos! Setenta y tres

Matt Sittel, PO Box 21421, Raleigh, NC 27607

Equipment: Yamaha TX-900U modified tuner, rabbit ears, Radio Shack FM amplifier

9/1 tr	
0750 WTCB	106.7 SC Orangeburg, "B 106" 201
0751 WJFK	106.7 VA Manassas, calls 217
0753 WRCX	107.3 DC Washington, "Max107.3" 236
0759 WFS1	107.9 MD Annapolis, calls, R 253
0801 WZCL	105.3 VA Norfolk, "The Eagle", k156
0804 WYAK	103.1 SC Surfside Beach, "Y103" 156
0805 WMAA	106.3 VA Gretna, calls 87
0807 WRXL	102.1 VA Richmond, "XL 102" 142
0821 WFLS	93.3 VA Fredericksburg, calls 187
0824 WHUR	96.3 DC Washington-FM #200- 236
0826 WCDX	92.7 VA Mechanicsville 150
0827 WHLZ	92.5 SC Manning, over WFFL 168
0829 WGTB	91.9 MD Takoma Park, g 240
0847 WDUJ	100.3 DC Washington 236
0856 WNAA	90.1 NC Greensboro, "The One" 65
0901 WETA	90.9 DC Washington, ID 236
0905 WQMS	103.5 DC Washington, over WRCQ 236
0938 WCKR	105.9 VA Woodbridge, calls 213
0947 WASH	97.1 DC Washington, calls 236
0950 WWIN	95.9 MD Glen Burnie, calls 260
	-thanks to Greg Coniglio for ID'ing!-
0954 WZZG	95.1 NC Charlotte, over WRNS 127
9/5 tr	
0826 WDRA	107.3 PA Du Bois, local ad 368
0829 WTUA	105.9 SC St. Stephen, "Power106" 179
0852 WCKR	105.9 VA Woodbridge, calls 213
9/6 tr	
0753 WJYO	107.7 FL Mt. Dora, "Magic107.7" 513
0809 WBOG	98.3 NC Murfreesboro, ad 101
0821 WTUA	105.9 SC St. Stephen, calls?, s 179
0825 WHIT	99.7 SC Port Royal, calls 259
9/10 tr	
0815 WMIT	106.9 NC Black Mountain, calls 204
0818 WTUA	105.9 SC St. Stephen, "Power106" 179
0821 WYAK	103.1 SC Surfside Beach 156

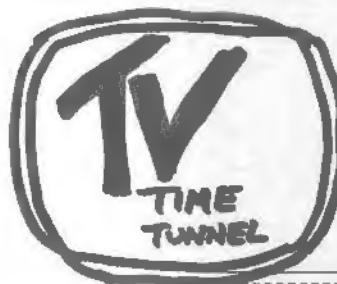
came the strange loggings on the 5th and 6th. They were in all by themselves!! PA and FL and essentially nothing else in? Conditions worsened and the rest of the month was poor, with some improvements noted during the last couple of days of the month, although most of the distant tropo being confined to UHF TV. Hopefully October will be a great month for classic fall tropo for all of us! 73s Matt.

unid	96.9 GT?
unid	98.5 FM? ment. "Cadena Cost- atlan", "Panameña"
unid	102.1 MX? R. Diversidad, ment. "Leon" & maybe Matamoros - KHQI?
WMMO	98.9 FL Orlando, fm - new 189

9/10 tr	
0829 WSVH	91.1 GA Savannah, "FM 91" 298
0830 WHIT	99.7 SC Port Royal, calls 259
9/11 tr	
0837 WFLO	95.7 VA Farmville, over WKML 106
0839 WVOB	99.1 NC Manteo, "VOB" 171
0846 WXLK	92.3 VA Roanoke, "K 92" 124
0858 WCDX	92.7 VA Mechanicsville 150
0859 WBBC	93.5 VA Blackstone, k, ID 99
9/12 tr	
0759 WESM	91.3 MD Princess Anne, ID 238
0759 WRJA	88.1 SC Sumter, WKNC empty 155
0807 WHIT	99.7 SC Port Royal, calls 259
9/19 tr	
0826 WDDM	101.3 SC Sumter, "The Big DM" 155
0831 WSPA	98.9 SC Spartanburg 192
0836 WGH	97.3 VA Newport News, k 153
9/20 tr	
0823 WSHV	105.5 VA South Hill 74
9/25 tr	
0831 WFOG	92.9 VA Suffolk, calls 136
9/26 tr	
0824 WTUA	105.9 SC St. Stephen, local ad 179
9/28 tr	
0832 WHRO	90.3 VA Norfolk, new freq. 156
0835 WJYJ	90.5 VA Fredericksburg 187
9/29 tr	
0840 WPTI	102.3 NC Honoke Rapids, calls 76
0902 WFLS	93.3 VA Fredericksburg 187
0911 WCKR	105.9 VA Woodbridge, calls 213
0918 WJQI	94.9 VA Virginia Beach 169

FM DX in September started out on a very high note with a fantastic opening into the DC metro area. Most of the DC stations were in stereo, with WETA reading higher on the signal meter than most of my locals!! Then

Writer's comment: In the annals of tv license grants, this may be one of the strangest ever. After almost a year of research there are still unanswered questions, and this article contains conjecture as to probable answers. In the event that any VUD reader can correct possible inaccuracies; please write me at the above address. It is the intent of this column to present historical fact; however in this case that was not always possible. Many thanks to VUD member Fred McCormack for his research assistance. Thanks also to retired WDAY-tv General Manager Summer Rasmussen, current WDAY-tv President Bill Marcil, KTHI-tv Chief Engineer Roger Johnson, and retired KXJB-tv Chief Engineer Lloyd Ericson.



Submitted by Tom Bryant
849 Todd Freie Dr.
Nashville, TN 37221

FARGO'S CHANNEL 11 --- (the mysterious origin)

THE SEEDS ARE PLANTED: The bizarre beginnings of Channel 11 in Fargo, ND rank with the conception of 'Rosemary's Baby' or the creation of the Frankenstein monster! The pieces of the puzzle are complex, as are the twists and turns of the story as it unfolds.

BUILDING BLOCKS: It is necessary to establish that top-level executives of both WDAY-tv (6) and KXJB-tv (4) were involved in the formation of the new station. WDAY-tv became the first station in the Red River Valley on June 1, 1953. Controlling interest of the channel 6 operation was in the hands of E.C. Reinecke; and operations and other ownership were intertwined with WDAY radio and the city's only daily newspaper "The Fargo Forum". Just over a year later, KXJB-tv (4) [licensed to Valley City but covering Fargo] went on the air under the guidance of John Bolter, President of the North Dakota Broadcasting Company.

MORE CORPORATE HISTORY: NDBC was a shareholder group which also owned and operated KCJB-tv (13) in Minot plus AM radio stations in Minot and Jamestown, ND. The company also had [or was obtaining] construction permits for new tv stations in Bismarck, ND and Aberdeen, SD. Although John Bolter held controlling interest in NDBC, the regional network also embraced independently owned KDIX-tv (2) in Dickinson, ND; and saw the spinoff of the Minot and Bismarck tv stations to Bolter colleagues.

APPLICATIONS

Fargo, N. D.—Marvin Kratter tr/as Fargo Tele-casting Co., vhf ch. 11 (198-204 mc); ERP 14 kw vis., 0.42 kw aural; ant. height above average terrain 392 ft., above ground 416 ft. Estimated construction cost \$57,333. First year operating cost \$113,580, revenue \$130,000. P. O. address 521 Fifth Ave., New York 17, N. Y. Studio location to be determined. Trans. location 12th St., 2 1/2 mi. W. of city limits. Geographic coordinates 46° 53' 35" N. Lat., 96° 51' 0" W. Long. Trans. Gates, ant. Prodelin. Legal counsel Bernard Koteen, Washington, D. C. Consulting engineer Dawkins Epy, Los Angeles. Mr. Kratter is N. Y. real estate investor and office building syndicate operator. Announced Jan. 8.

APPLICATION

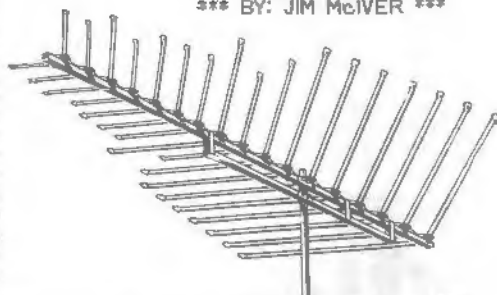
Fargo, N. D.—North Dakota Bcstg. Co., vhf ch. 11 (198-204 mc); ERP 28.05 kw vis., 14.35 kw aural; ant. height above average terrain 392 ft., above ground 416 ft. Estimated construction cost \$53,450, first year operating cost \$96,000, revenue \$120,000. P. O. address 4000 W. Main St., Fargo. Studio location Fargo. Trans. location Clay County, Minn. Geographic coordinates 46° 45' 25" N. Lat., 96° 35' 37" W. Long. Trans. Dumont, ant. RCA. Legal counsel D. F. Prince, Washington, D. C. Consulting engineer Lloyd R. Amos, Valley City, N. D. North Dakota is licensee of KCJB-AM-TV Minot, KXJB-TV Valley City, KBMB-TV Bismarck and KBJB Jamestown, all N. D. Principal stockholders are John Bolter and E. C. Reinecke and wife.

BROADCASTING 01/14/57

BROADCASTING 07/01/57

[CONTINUES NEXT MONTH...Lots of digging uncovers little pay dirt!]

There are a lot of experimenters who scoff at Radio Shack's antenna products. "Archer" brand name has never rated high among electronic enthusiasts...and usually for good reasons. As an installer I can tell you their stuff generally is not as well-built as the major antenna brands (their UHF antenna line contains some excellent exceptions to this rule—their CR yagis are used with good results here in northern New York). What you notice right away about their VHF and "combo" models is they generally use thinner aluminum stock and cheaper plastic insulators. But with Radio Shack antenna products, certain things should be kept in mind. For instance, they are marketed by the world's largest multi-national electronics chain store, and aimed at the "do-it-yourself" crowd—most other antenna brands are built to please professional antenna installers, your professionals who also sell them because they know what does work and does not work. I think Radio Shack antennas often are designed with shipping considerations placed ahead of performance specs, with the main objective of getting them into and out of their hundreds of stores as quickly and efficiently as possible, while maintaining profitability.



PRODUCT REVIEW *** BY: JIM McIVER ***

But there are some Archer antennas that might be considered by TV DXers on a budget who may be away from their home systems, either as "dorm DXers" or on vacation or on a DX-pedition. They may not be quite in the same league with your Channel Master, your Winegard or your General Instrument, but they tend to be far more "transportable" and much, much cheaper. Then there's the one big advantage Radio Shack enjoys over most other sources of antenna equipment and accessories: they are as close as your local Shopping Mall. Archer model 1654 "V-185"—their best VHF-only model—normally sells for about \$60, roughly around half of what the best VHF-only antennas (for example, Channel Master's high end Crossfire or Winegard's biggest Chromestar) go for at wholesale. The V-185 is often down to around \$50 when they have one of their seasonal promotional sales. At one of their "as-is, where-is" sales they might be even a few bucks less if you shop carefully.

A (non-DXer) friend installed one of these VHF-only models as a "back-up" (together with a coaxial A/B switch) for his cable-TV service, which seems to go down for a day every time it rains. (Want something more reliable than cable? The answer is TVROJ. He at least wanted to be able to watch his local (ch 7) and semi-locals (mostly Canadians from Kingston, Ont., and we can get some Syracuse NY) when he loses the cable feed. Poor devil even bought a Radio Shack rotor and aluminum mast sections, neither of which I could ever recommend. He had wanted to buy one of what we call their "All-channel Football Season specials," the promotional piece of junk that RS hauls out every year (it looks like it could be out-performed by four plastic coat hangers in series). I'm glad he bought the V-185. Much to my own surprise, the antenna does a pretty fair job on the channel 2 - 13 range.

Nothing new or different about the basic design of this antenna. It's a pretty simple antenna concept, based on a variation of the log-periodic (LPDA) principle. The V-185 log antenna design is a driven-element array consisting of seventeen sets of dipole elements (usually, the more elements, the more gain—if proper boom length is observed) fed in parallel using "criss-cross" (transposed) feed line. Each set of dipoles is designed to be electrically resonant to the wavelengths of a portion of the 54 to 108 and 174 to 216 MHz ranges; in other words, TV channels 2 - 6 and the FM broadcast range, and TV channels 7 - 13. This antenna is entirely composed of driven elements—no directors or reflectors as would be found on the best high-performance wide band VHF antennas. The variation is the multi-mode "vee" design, which was first widely used by several manufacturers in the late 60's. Most larger manufacturers of the time, such as Jerrold, RMS, JFD, Antenna Craft, eventually even Channel Master, offered multimoded vee logs—this design had the flat frequency response required for reliable color subcarrier reception, pretty important in the new color TVs in that era.

I had a chance to get a quick look at this antenna in operation here. As expected, the forward gain, nulls, and front-to-back performance were nowhere near the equal of, say, a Channel Master. Also this antenna is about 13-and-a-half-foot long, which is a tad on the short side for what the optimum for this design should be. But the antenna did a surprisingly good job, especially on high band (ch 7 - 13) range. While the nulls were poor to practically non-existent and front-to-back performance is very bad (true of all vee LPDA types) forward gain on high band was decent, all things being considered. A "conservative guesstimate" — this antenna averages close to 7.5 dB over a dipole on highband. Not the best for weak-signal performance—but it beats rabbit ears or ribbon line dipoles by a wide margin, and is easily better than many smaller log-yagis and combo antennas of the same or smaller size. The lowband performance is nothing special though. Average gain in the 54 - 108 MHz range, again a guesstimate, would appear to be around 4.5 dB, and there seemed to be a definite "roll-off" at ch 2. I did not have a chance to check out this antenna's response on the FM band—but any small FM log yagi (including Archer's own 15-1636) would outperform this wideband design.

In summary, major advantage of the V-185 is its transportability. It is fairly cheap for the moderate gain and wideband coverage involved—and it might serve DXers well as a "search" antenna or a back-up array for times when your main VHF TV DX antenna is not in working order. Though it does not have the nulls or back rejection needed for best DXing performance, it should outperform simple antennas such as rabbit ears or quad loops in most S-Sig openings. It has what looks to be just enough gain to offer you a good sampling of signals when conditions are "up." It is hardly anything like a high-end super duper log yagi or cut-channel when it comes to weak signal performance; but in all, not too bad—for what was expected to be a mediocre antenna.

From The STAFF

(CONTINUED FROM PAGE 2)

COLUMN NEWS...INTERNATIONAL NOTES, TV STATISTICS, and NORTHERN FM DX were not on hand as we go to press. We've had no word as to the status of the first two columns from their editors for many months. Ron and Bob, please take note: if we don't hear from you by the December issue deadline (November 20), we'll have to ask for new volunteers, or cancel the columns owing to apparent lack of interest.

A BRITISH SUPER-ANTENNA?...Longtime WFDaer John Sulak has sent word about what sounds like a very interesting FM antenna design—although it almost sounds too good to be true. Ron Smith Aerials of Luton, ENGLAND is marketing a model with claimed specs of 19.2 dB forward gain, with 38.6 dB front-to-back ratio, 15.0 degree "acceptor angle" (beamwidth), 134 inches (3.4 metres) long, with three levels of directors, a "round loop dipole" and what seems to be a some type of screen reflector on the rear of the boom. Height of the complex array is about 33 inches (about 0.84 metre). There IS a North American distributor for this highly unusual array, NAIM AUDIO North America, Inc., 1748 N. Sedewich St., Chicago IL 60614. Offhand, the claimed specs seem a bit "sweet," (especially that gain figure!). Most antennas are measured against a half-wave reference dipole under carefully controlled conditions, but the English company may be using an isotropic equivalent, which inflates forward gain by more than 2 dB. Thanks, John, for whetting our curiosity! On paper at least, this array sounds like it would outperform a stack of Stereo Probe 9's! We are trying to get more information about this one, and a report may appear in an upcoming issue.

SO LONG, AND THANKS FOR ALL THE PLUGS...We've got to thank some very nice folks for promoting WFDa in print recent weeks. Member Karl Zuk, in his October "American Bandscan" column in MONITORING TIMES, mentions the club and the wave of enthusiasm for homebrew selectivity improvements fostered by Bill Wismajadly's work with filters as reported in the YUD. POPULAR COMMUNICATIONS' November issue carries a recommendation on WFDa in their "Mailbag" section. MT and POP'COMM are the only wide-circulation professional magazines featuring monthly coverage of shortwave DXing, scanners, specialty monitoring, and personal communications. You can find them at your local bookstore, usually next to the ham, audio, and computer magazines. Two radio hobby publications have also carried recent mention of WFDa. THE LINK, a VHF amateur radio magazine, carried a piece on WFDa and DXing after seeing a television news story about a meteorologist's TV DX hobby; and the National Radio Club's DX NEWS, considered by many to be one of the best DX hobby publications (NRC's specialty is primarily the mediumwave AM broadcast band—and they've been publishing since 1913!), carried a mention of WFDa in their FM column. These publications certainly must have a large and very enthusiastic readership, going by the small flood of requests for information on the club lately!